#	Revision	Date

1.0 Overview
1.1 Volume 1: Terminals - Overview

2.0 Graphic Standards
2.1 Typography
2.2 Terminology/Symbology
2.3 Message Hierarchy
2.4 Arrow Standards
2.5 Color Standards

3.0 Sign Types - Terminals (100 Series)
3.1 Identification System
3.2 Grid Layouts
3.3 Mounting Requirements
3.4 Sign Type Index
3.5 Sign Type - Layouts
3.5.1 Directional Signs
3.5.2 Identification Signs
3.5.3 Informational Signs

Appendix
A.1 Signage Program Overview
A.2 Circulation Diagrams

#	Revision	Date

Purpose and Scope 1.1.1

The purpose of this volume of the Signage Standards and Guidelines is to outline general criteria for the design and/or fabrication of signage within the terminals of Boston Logan International Airport (BOS). This is intended to meet the particular needs of the terminals while maintaining overall design cohesion with the signage system airport-wide.

Adherence to the standards of this document and official Massachusetts Port Authority (Massport) policies and procedures will ensure consistency throughout the signage system at BOS.

Signs Regulated by this document include:

- All interior directional, identification, and informational signs for public visitors throughout the terminals within the airport property, including:
  - Terminal(s)
    - Ticketing
    - Baggage Claim
    - Gates (Domestic/ International)
    - F.I.S. Areas

Signs NOT Regulated by this document include:

- Curbside (Upper/ Lower) (see Volume 2)
- Ground Transportation (see Volume 2)
- Parking (see Volume 3)
- Roadways (see Volume 4)
- Cargo and support facilities
- Vehicular pavement markings
- Vehicular regulatory
- Rental car facilities
- Non-public areas

#	Revision	Date

Purpose and Scope cont'd. 1.1.1

This volume is organized in four main sections: Overview, Graphic Standards, Sign Types, and Appendix.

- **Overview** - includes an overall explanation of the signage program as well as the purpose and scope of the volume.

- **Graphic Standards** - includes general specifications applicable to all sign types, which include:
  - TYPOGRAPHY - application and standardization for all typography used on directional, informational, and identification signage.
  - TERMINOLOGY - includes all terminology that shall be used throughout the terminals.
  - SYMBOLOGY - includes all symbology that shall be used throughout the terminals, its application, restrictions and its corresponding terms.
  - MESSAGE HIERARCHY - includes message hierarchy for each category organized by sign types. Those categories are: Primary Messages, Secondary Messages and Tertiary Messages.
  - ARROW STANDARDS - includes arrow sizes, application on directional signage, orientations and placement.
  - COLOR STANDARDS - listing of all colors, paint equivalents, and transparency/ opaque vinyl specifications that shall be allowed through the terminal areas.

- **Sign Types** - specific sign layout information and application guidelines:
  - IDENTIFICATION SYSTEM - includes all the sign type series numbering and specific break down for the sign type numbering within each series.
  - GRID LAYOUTS - includes the grid sizes used to determine the sign types sizes.
  - MOUNTING REQUIREMENTS - descriptions of all the mounting styles that shall be used in the terminal areas are given. Specific application or special circumstances are delineated.
  - SIGN TYPE INDEX - sign descriptions and specifications referencing sign layouts and details.
  - SIGN TYPE LAYOUTS - includes sign face layouts, elevations and mounting descriptions.

- **Appendix** - may include forms, graphics, and/ or supplemental information relevant to this specific volume. It also includes circulation diagrams for all the terminals.

#	Revision	Date

Governing Codes and Standards 1.1.2

Governing codes, city ordinances and standards affecting the Boston Logan International Airport (BOS) signing and graphics system are outlined below. This list is not to be assumed as a complete list of requirements. If there is a conflict between a requirement listed below and another authoritative code or standard, the more stringent one shall be applied. This section is for reference only, and it is the designer's responsibility to meet all current applicable codes or regulations.

General Regulation Requirements

- In all rooms or areas where smoking is prohibited, plainly visible "NO SMOKING" signs (using either the verbiage or symbol, or both) shall be posted.
- Elements and space of accessible facilities which shall be identified by the International Symbol of Accessibility are:
    - Parking spaces designated as reserved for individuals with disabilities
    - Accessible passenger loading zones
    - Accessible entrances when not all are accessible (inaccessible entrances shall have directional signs indicating the route to the nearest accessible entrance)
    - Accessible toilets, when not all toilets are accessible
- An eggshell finish (11 to 19 degree gloss on 60 degree gloss meter) on sign faces is recommended.
- Illumination levels on sign surfaces shall be in the 100 to 300 lux range (10 to 30 foot candles) on interior signs, and shall be uniform over the sign surface. Signs shall be located such that the illumination level on the surface of the sign is not significantly exceeded by the ambient light or visible bright lighting source behind or in front of the sign.
- Characters and numbers on signs shall be sized according to the viewing distance from which they are to be read. The minimum height is measured using an upper case X. Lower case characters are permitted unless noted otherwise.
- For Braille signs the letters and numbers shall be raised 1/32" minimum, upper case, san-serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8", but no higher that 2". Pictograms shall be accompanied by the equivalent verbal description placed below the pictogram. The border dimension of the pictogram shall be 6"minimum in height.
- Each door to an exit stairway shall have tactile signing that states EXIT and complies with ANSI.

#	Revision	Date

Governing Codes and Standards cont'd. 1.1.2

AAAE	American Association of Airport Executives
AASHTO	American Association of State Highway and Transportation Officials
ACC	Airport Consultants Council
AIGA	American Institute of Graphic Arts
ANSI	American Nationals Standards Institute
ASTM	American Society for Testing and Materials
ATA	Air Transport Association of America
AWI	Architectural Woodwork Institute
CAA	Civil Aeronautics Administration
CAB	Civil Aeronautics Board
CABO	Council of American Building Officials
CSI	Constructions Specifications Institute
FAA	Federal Aviation Administration
FHA	Federal Highway Administration
IATA	International Air Transport Association
NEMA	National Electric Manufacturers Association
NFPA	National Fire Protection Association
MHD	Massachusetts Highway Department

Governing Bodies and Authoritative Organizations

Figure 1.1.1

ADA	American with Disabilities Act
ANSI	American National Standards Institute, Inc.
LSC	Life Safety Code (written by NFPA)
MBC	Massachusetts Building Code
MUTCD	Manual of Uniform Traffic Control Devices
NEC	National Electrical Code (written by NFPA)
SPC	Standard Plumbing Code (written by NFPA)
SBCCI	Standard Building Code
UBC	Uniform Building Code

Codes and Regulations

Figure 1.1.2

#	Revision	Date

Design Criteria 1.1.3

The design criteria for Boston Logan International Airport (BOS) is organized into sections which outline the procedures and requirements for development of a successful signage system to guide visitors through the airport facilities. These principles for design are intended to inform and instruct in properly establishing the signage standards and guidelines for terminals at BOS. This part of the document should be used as a basis for and supplement to the graphic standards to create a uniform and cohesive signing and graphics system for Boston Logan International Airport.

In development of the signage design for BOS, the following list of design requirements/ criteria should be applied to all the sign types:

- Methodology
- Nomenclature
- Wayfinding Factors Process
- Consistent Sign Placement
- Consistent Legibility

Methodology:
To comprehensively program the airport wayfinding, an in-depth analysis of the facilities and circulation shall be conducted, and Wayfinding methodology also shall be established which CB has already included in these guidelines. All major airport facilities should be reviewed in a holistic approach to ensure wayfinding consistency throughout. The methodology shall begin with this review:

- All airport facilities plans (plans and elevations)
- Space functions
- Circulation paths
- Peak load circulation
- Established Nomenclature and Terminology
- Established Message Hierarchy
- Vertical and horizontal circulation
- Primary destinations
- Physical complications
- Connecting passengers verses Origin & Destination

NOMENCLATURE AND TERMINOLOGY:
The first issue that shall be taken into account is the Nomenclature and Terminology is established in this document. Terminology identifying airport functions and space shall be standardized and established*(See section 2.2 in Graphic Standards)*.

MESSAGE HIERARCHY:
Hierarchy of messages exist for primary, secondary, and tertiary messaging. Ranking was based on routing or destination priorities and site, or space specific direction(s). The message hierarchy established in this document shall be used to develop message schedules for future signage *(See section 2.3 in Graphic Standards)*.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Methodology cont'd:

GRAPHIC STANDARDS:
The Graphic Standards section of this document shall be used for the design of future signage *(See section 2.0 Graphic Standards)*. Included in the graphic standards is documentation of:

- Font type, size relationships, kerning, spacing, etc.
- Symbols
- Arrows, types and relationships
- Language relationships and ranking
- Clear space
- Graphic element spacing
- Color, color coding
- Branded colors if applicable
- General materials consideration

SIGN TYPES:
The sign type family is the catalog of all directional, identification and informational signage applications. It functions as a tool for programming signs *(See section 3.0 Sign Types)*. Future signage shall be designed based on the sign types included in the Section 3.0 of this document. Information regarding acceptable sign sizes and mounting requirements is also included. This section includes primary and secondary sign types for:

- DIRECTIONAL SIGNS - Signage designed to facilitate circulation to and/ or from a specific destination within the airport complex.
- IDENTIFICATION SIGNS - Signage designed for identification of specific areas or spaces within the airport complex.
- INFORMATIONAL SIGNS - Signs or displays designed to convey airport information and services. Directories of floor plans, levels, airport sevrices, airlines, gates information, etc.
-

#	Revision	Date

Design Criteria con't. 1.1.3

Nomenclature

NOMENCLATURE AND TERMINOLOGY

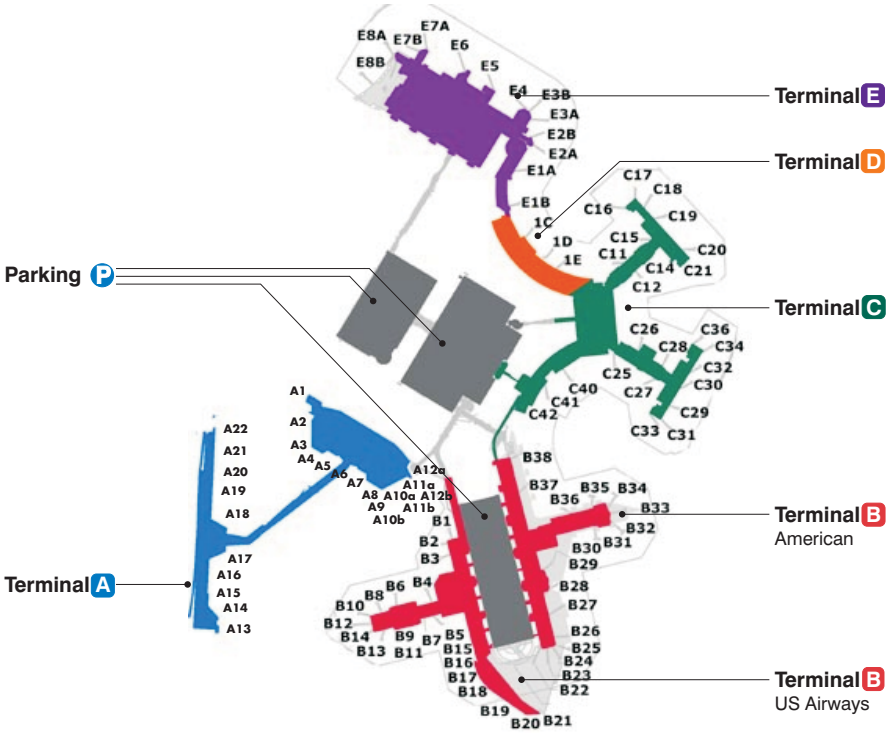
A. Existing Nomenclature:

• Terminals Designation: Boston Logan International Airport currently has four terminals and one under construction. Each facility is identified as Terminal A (under construction), Terminal B (American side and US Airways side) Terminal C, Terminal D, and Terminal E.

• Gates Designation: The gates designation at BOS is related to the terminals names as shown below:

- Terminal A: A1-A22
- Terminal B: B1-B38
- Terminal C: C11-C21, C25-C26, C40-C42
- Terminal D: 1C, 1D, 1E
- Terminal E: E1A, E1B, E2A, E2B, E3A, E3B, E4, E5, E6, E7A, E7B, E8A and E8B

• Parking nomenclature will be addressed in the Signage Standards and Guidelines Volume 3: Parking.



Boston Logan International Airport - Existing Nomenclature

Figure 1.1.3

#	Revision	Date

Design Criteria con't. 1.1.3

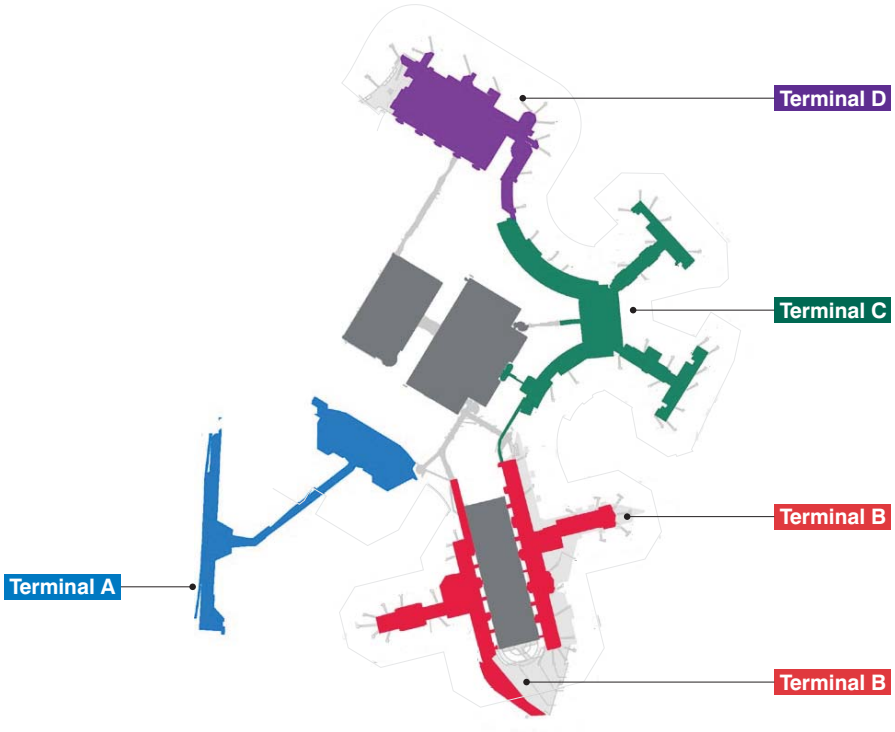
Nomenclature con't.

NOMENCLATURE AND TERMINOLOGY

B. Future Nomenclature:

• Terminals Designation: In an effort to simplify information in digestible segments for the traveling public, the Airport's terminals facilities will now be identified as: Terminal A, Terminal B, Terminal C, and Terminal D.

Note: *Future Gate numbers to be determined by Massport*



Boston Logan International Airport - Future Nomenclature

Figure 1.1.4

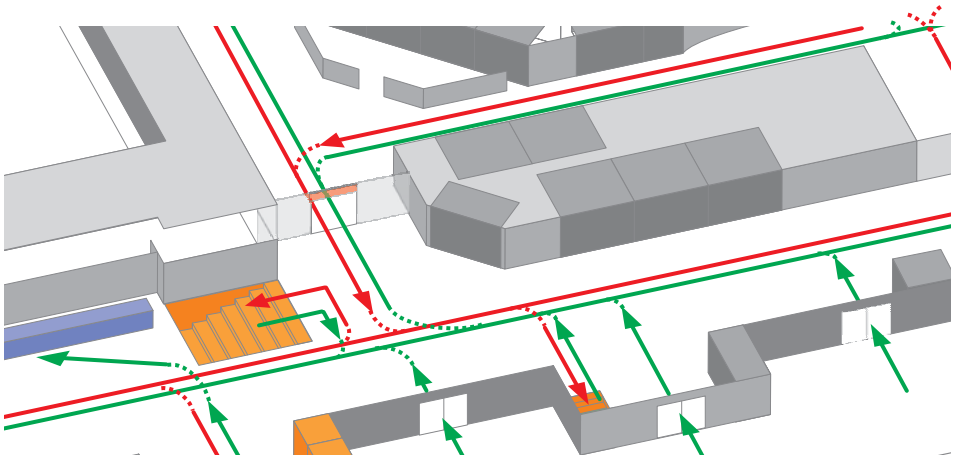
#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors:
The ability to orient and navigate through the various airport environments is fundamentally important. Wayfinding brings into play the analysis of spatial relationships and circulation studies.

CIRCULATION ANALYSIS:
Incoming and Outgoing (or Enplaning and Deplaning) circulation for major user groups shall be charted by the designer of the sign system. Points of origin and destination will be referenced as the basis for identifying critical decision points and information requirements.

Primary user circulation routes are depicted as solid lined arrows (red for arriving passengers and green for departing). The dotted lined arrows depict the secondary circulation routes that might occur at direction changes.



Circulation Flow - Example taken from Terminal B - Level 2

Figure 1.1.5

Note: Refer to Appendix for complete information on circulation diagrams for all Terminals.

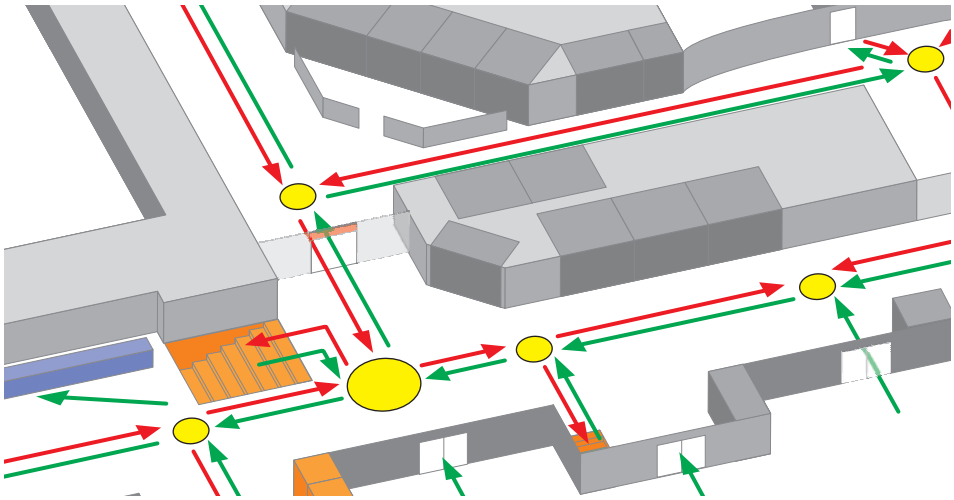
#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

IDENTIFICATION OF DECISION POINTS:
Decision points along user circulation routes shall be located at required direction changes and points where the user encounters alternative choices.

Examples of decision point locations within the existing complex shall be as yellow circles at primary and secondary intersection/directional changing areas as shown below. These areas are the most optimal location for placing directional signs that inform the viewer of the existing alternative pathways.



Circulation Flow - Example taken from Terminal B - Level 2

Figure 1.1.6

Note: Refer to Appendix for complete information on circulation diagrams for all Terminals.

DETERMINING REQUIRED INFORMATION AT DECISION POINTS:
The type of information required at or preceding each decision point shall be determined. In addition, the location of messages identifying destination points should be determined.

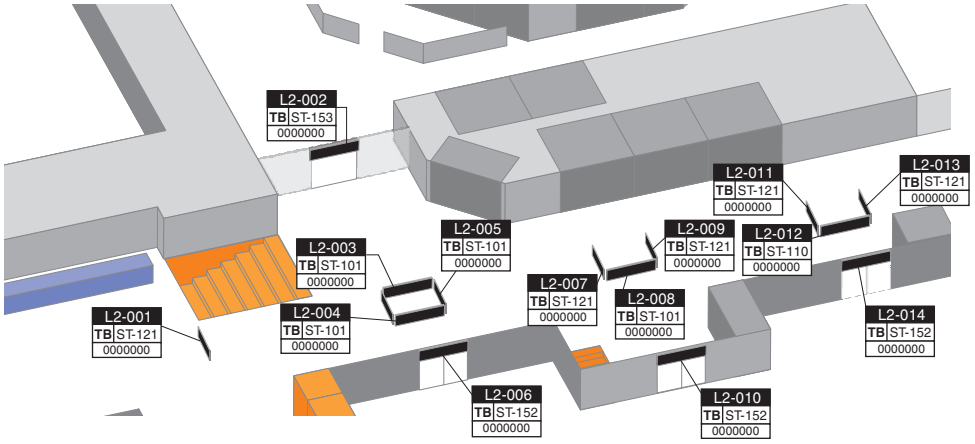
#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

IDENTIFICATION OF SIGN LOCATIONS

Plans, cross sections and elevations of specific terminal spaces shall be analyzed by the designer of the sign system. A final sign location plan shall be developed *(Refer to Figure 1.1.7)*.

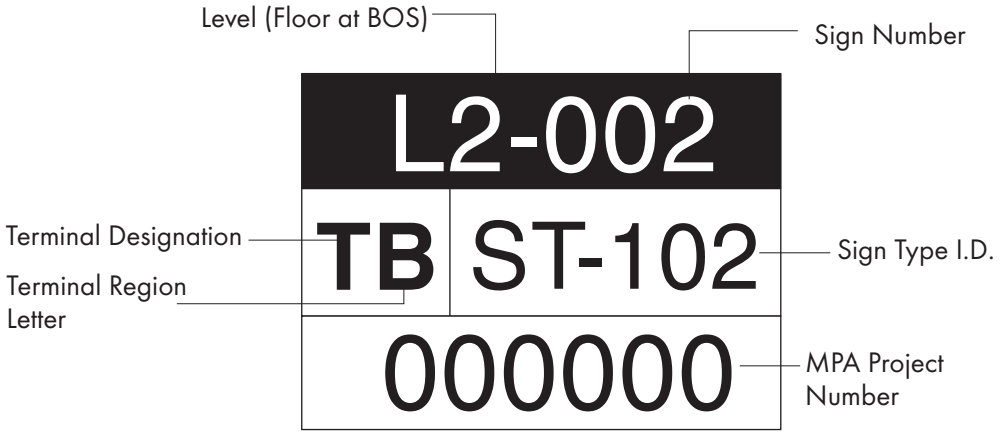


Identification of sign locations - Example taken from Terminal B - Level 2

Figure 1.1.7

SIGN LOCATION INDICATORS

The following system shall be used to identify each sign type and its location on the plans. Each sign shall be given a terminal area, a floor level of the airport facility, an identification of its type and a sequential number for the plan. This will assure that a consistent sign location system is used from designer to designer.



Sign Location Indicator Example

Figure 1.1.8

#	Revision	Date

Design Criteria cont'd: 1.1.3

Wayfinding Factors cont'd:

DELIVERABLES:
Upon completion of the Wayfinding Methodology, the designer shall provide the Airport with detailed drawings and information for the following:

- Circulation Analysis
- Identification of Primary and Secondary decisions points
- Detailed locations of each sign to be constructed and implemented
- Signage database using the Sign location indicator system *(See Figure 1.1.8)*

These shall be included for each facility within the Authority where signage is being developed for (Terminals, Curbside, Parking and Roadways).

The documents listed above are a compliment to the deliverables necessary to construct the signs (i.e, Sign layouts, message schedules, mounting specifications, construction specifications, etc...) which shall also be provided by the designer.

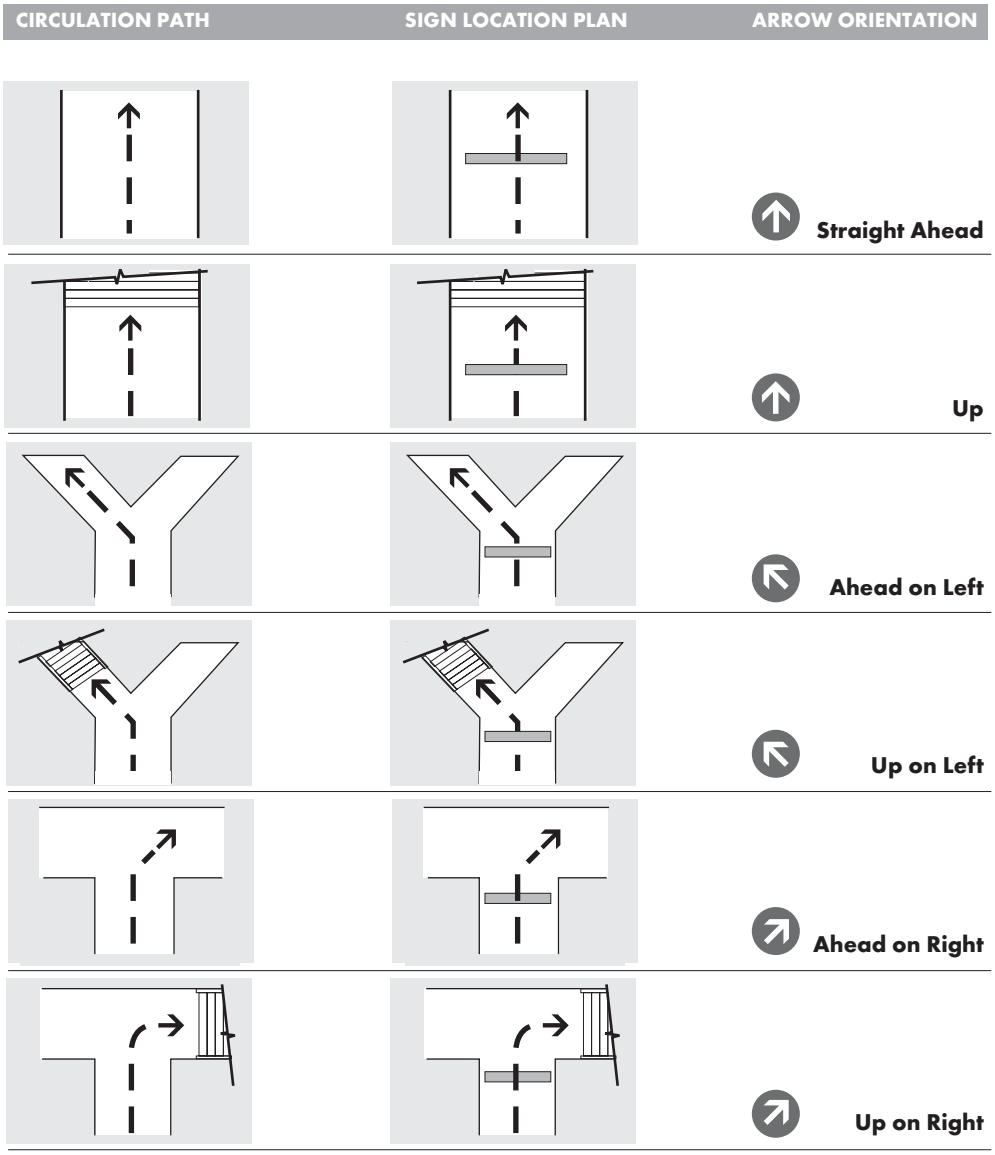
A detailed list of deliverables shall be agreed on between the Authority and the designer prior to commencement of the project.

NOTE: This document is intended to be a guideline only. Each designer is expected to complete their due diligence in the design of all signage support structures and related items.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Consistent Sign Placement:
Viewer circulation patterns and natural lines of vision are the basis for determining the location of all signs. Signs shall be located to precede decision points to ensure sufficient time for passengers to react to each sign message.



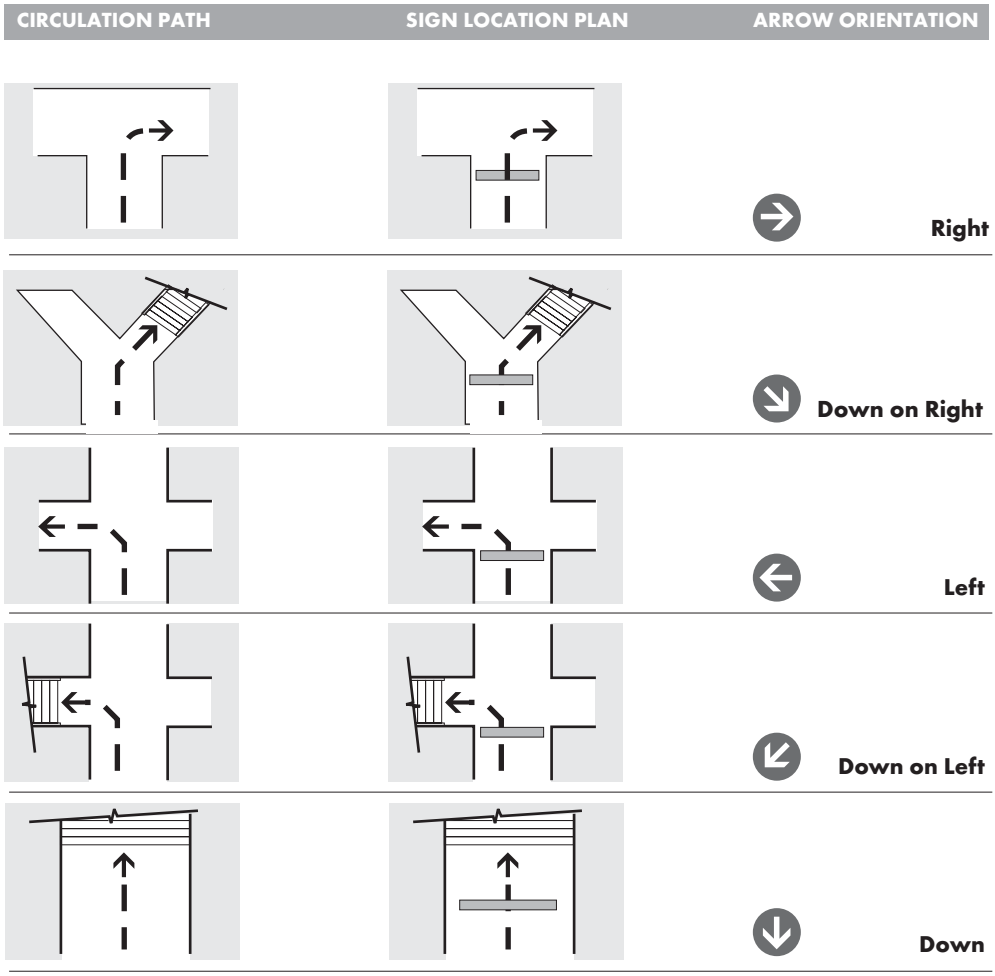
Sign Placement

Figure 1.1.9

#	Revision	Date

Design Criteria cont'd. 1.1.3

Consistent Sign Placement cont'd:



Sign Placement (con't)

Figure 1.1.9

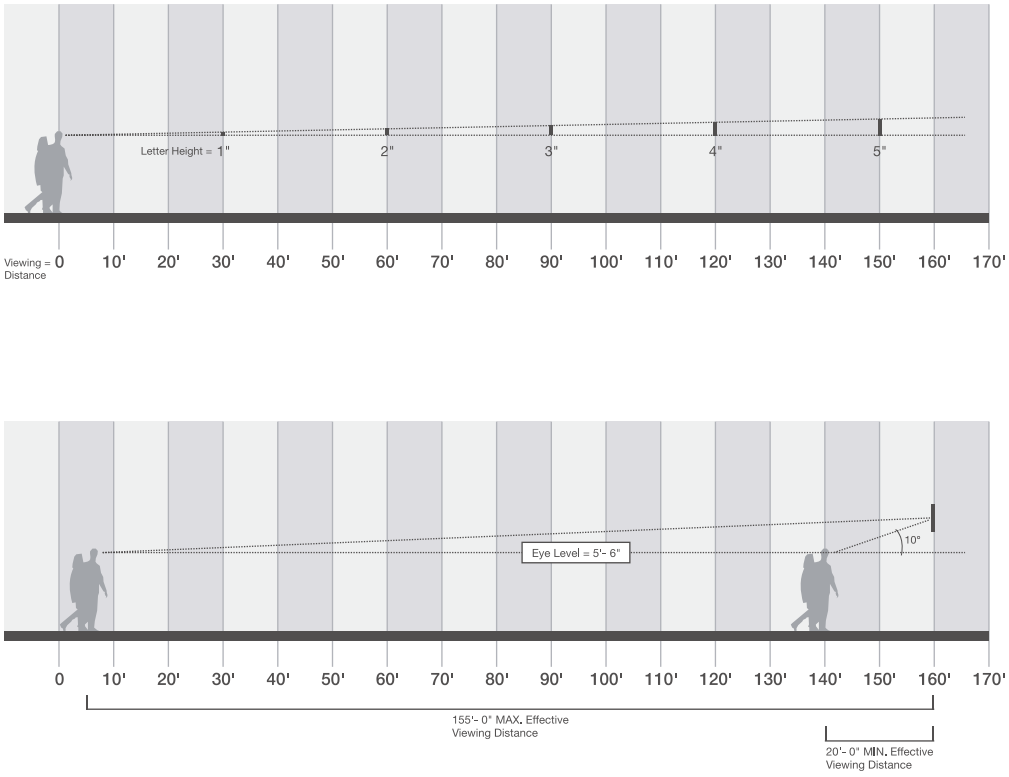
#	Revision	Date

Design Criteria cont'd. 1.1.3

Consistent Legibility:

Legibility is another important factor within the process of securing an effective signage system. "Legibility" is defined as the recognition of the various elements that make a message or symbol understandable without the aid of additional wording or preconditioning. The following sections set the criteria for legibility related to pedestrian signs. The factors affecting legibility include sign placement, lighting, and color contrast.

It is necessary to have a consistency in placement and presentation of messaging on signs, as well as floor to ceiling height and size of sign. This will minimize the unintended interpretation of the pathways and uses of the facility. The sign location will dictate the range of visibility available for the viewer to interpret the information. If the viewer is given the appropriate distance to comprehend the messages, he/she will be able to make a decision to change direction or stay on the same pathway. It is also necessary to create a consistent size for text and symbols throughout the facility. This will create a repetitive display of information which, in turn, will make interpretation and comprehension easier *(See Figure 1.1.10 for viewing distances).*



Viewing Distances

Figure 1.1.10

#	Revision	Date

Change Procedures / Sign Replacement 1.1.4

Scope and Process for Signage Review

The following explains the scope and process for signage review.* TAA sign types are not goverened by the Guidelines and therefore should not fall under the review process. Aviation Projects, Operational Signage and Communications Projects may or may not need to comply with the Guidelines depending on project goals.

Signage projects should be addressed within the following contexts: Tenant Alteration Applications; Aviation Projects; Communication Projects; Operational Requirements and Capital Projects; the processes for developing Signage scope and design are described below.

Tenant Alteration Application: For a TAA Aviation Administration and Development's projects, the TAA Project Manager is the lead. The TAA Project Manager coordinates with the Manager of Aviation Signage at the inception of each project (whether large or small) to determine if the project will require signage. In some cases the Project will be required to develop a Signage Plan, in other cases Aviation Signage would provide the needed signage. The approach would be case by case.

Aviation Projects: Aviation Projects are lead by various staff within Aviation. The Project Manager meets with the Manager of Aviation Signage and all other stake holders at the inception of each project (whether large or small) to determine if the project will require signage. The Aviation Signage Manager works with stake holders and Project Manager to determine with signage is required and the best methodology for fabrication and whether to do work in-house or use outside vendors.

Communication Projects: For Communications Projects, various staff within Aviation and Communication takes the lead. The Aviation/Communications Team meets with the Manager of Aviation Signage and all other stake holders at the inception of each project (whether large or small) to determine if the project will require signage. The Aviation Signage Manager works with the stake holders and Team to determine what signage is required and the best methodology for fabrication and whether to do the work in-house or use outside vendors. Communications is responsible to provide design.

Operations Requirements: Operational Requirements include Parking, Ground Transportation, Security, Airline Changes, and the Airport Directory System. Aviation Signage Manager is the lead and is responsible for scope, design, fabrication, and installation.

Capital Projects: In a Capital Project, the lead person is the Project Manager. The Project Manager should meet with the Manager of Aviation Signage at the inception of each project (whether large or small) to determine if the project will require signage. In some cases the Project Manager will be required to develop a Signage Plan in other cases Aviation Signage would provide the needed signage. The approach would be case by case.

#	Revision	Date

Change Procedures / Sign Replacement 1.1.4

PHASE 1	Review Tasks	Details		Detail Tasks
Review by: Aviation Admin and Develop. Capital Programs Communications	Does Project Require Signage? If yes, what types?	Permanent Temporary Marketing/Communications	Scope	Wayfinding Location Identification Regulatory/Informational Construction Signage Wayfinding Roll Out
	How will signage be funded?	By Project? By Aviation Signage? By Communications?	Scope	Funding
	Does Project drive Signage Changes outside of Project Limits?		Scope	Wayfinding Location Identification Regulatory/Informational
	If so, how will signage be funded?	By Project? By Aviation Signage?	Costs	Funding Funding
	Assignment of Signage Tasks	Project Manager Designer Fabricator		

PHASE 2	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Circulation Diagrams	Arriving Departures	Horizontal Vertical Horizontal Vertical
	Identify Critical Intersections		
	Develop Wayfinding Path Requirements		

PHASE 3	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Draft Sign Matrix	Sign Number Sign Type Sign Message	
	Draft Sign Location Plan		

PHASE 4	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Refine Sign Matrix	Sign Number Sign Type Sign Message	
	Refine Sign Location Plan		
	Design Sign Face Layouts		

Change Procedure / Sign Replacement (Figure provided by Massport on 12/17/04)

Figure 1.1.11

#	Revision	Date

All signage typography issues having to do with text size, fonts, capitalization, word spacing, letter spacing, and line spacing are discussed in this section of the document.

Acceptable Type Styles 2.1.1

All text on directional signs shall be set in Swiss 721 BT, unless otherwise specified.

Accepted specialized type styles used for identification and informational sign types are defined in the Specialized Type Style portion of this document *(See section 2.1.5)*.

Capitalization 2.1.2

Aside from special decorative uses and certain regulatory signs, all sign word messages shall be in initial uppercase followed by lowercase. Examples of exceptions:

EXIT
DO NOT ENTER
ATM

- As required by the Americans with Disabilities Act, all tactile messages should be all upper case.
- For better legibility, lower case letters should have a lowercase "x" height that should be two-thirds the height of the uppercase letter.
- All words should be capitalized except for articles, prepositions and conjunctions.
- A consistent capital letter height will be maintained when signs are used in sequence.

Restrictions 2.1.3

Typefaces or weights not described above should not be used. Modification of letter shapes is prohibited unless specified in the graphic standards or on the sign type layout.

Condensed, extended, slanted, outlined or otherwise distorted type should not be used.

Language to this effect should be included in the specifications for all additional airport sign projects.

#	Revision	Date

Type Style Application 2.1.4

The font used for all directional text messages on terminal signs are to be a consistent version of Swiss. For all terminal signs, text should appear as equal weight using the established hierarchy of fonts of Swiss. Swiss 721 BT Bold shall be the established font for all English text used on directional sign types, except for text used for all terminal identification (ID) symbols and push through letters that identify the gates in the gate ID/airline listing sign types.

Specialized type style shall be used exactly as specified on each sign type layout. Do not vary from the sign type application provided in the layout *(Refer to each respective sign type for the exact specifications)*.

Note: Type face size shall be regulated depending on sign type.

Swiss 721 BT Bold Type Face Sizes
Swiss 721 BT Bold shall be used at a 3″ cap height for all primary directional sign types.

Swiss 721 BT Bold shall be used at a 3″ cap height for all secondary directional sign types.



Swiss 721 BT Bold Type Face

Figure 2.1.1

#	Revision	Date

Type Style Application cont'd. 2.1.4

Swiss 721 BT Black Condensed Type Face

The specialized font "Swiss 721 BT Black Condensed" shall be used in the areas outlined as followed. Swiss 721 BT Black Condensed should be used for the headers of existing directories.

ABCDEFGHIJKLMNOPQ
URSTUVWXYZ
abcdefghijklmnopqurs
tuvwxyz1234567890!
@#$% ^ &*()/?"",.

Swiss 721 BT Black Condensed Type Face

Figure 2.1.2

Specialized Type Style 2.1.5

Swiss 721 BT Black Type Face

The specialized font "Swiss 721 BT Black" shall be used in the areas outlined as followed. Swiss 721 BT Black should be used for letters of all terminal ID symbols.



Swiss 721 BT Black Type Face

Figure 2.1.3

#	Revision	Date

Letter Spacing 2.1.6

Unless otherwise indicated, all sign messages shall follow an approximate 5% kerning inside. In some circumstances, modification of spacing between individual letter pairs may improve the appearance of the sign message. Samples of messages are required for all sign projects for review; and spacing recommendation shall be made where they can be shown to be advantageous. In these instances, hand-kerning may be required on internally illuminated signs to prevent "halation." Reducing normal letter or word spacing (e.g. to fit a lengthy message within a restricted area) shall be prohibited. Letter spacing should match the following:

Baggage Claim spacing too close

Baggage Claim spacing correct

Baggage Claim spacing too wide

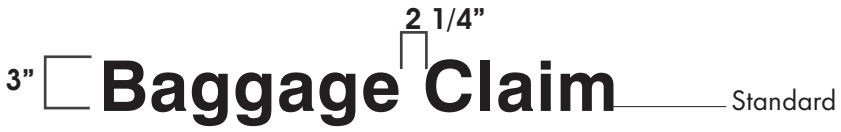
Letter Spacing Comparison

Figure 2.1.4

#	Revision	Date

Word Spacing 2.1.7

Word spacing between related words is normally ¾ (.75) times the cap letter height. For example, a message using 3" cap letters will have 2 1/4" between words *(See Figure 2.1.5)*.



Word Spacing

Figure 2.1.5

Line Spacing 2.1.8

Line spacing shall be ½ (.50) times the cap letter height for words of a related message line. Spacing between unrelated message lines shall typically be 1 times the cap letter height *(See Figure 2.1.6)*.



Line Spacing

Figure 2.1.6

2.0 GRAPHIC STANDARDS

#	Revision	Date

The terminology/symbology has been divided into categories based on its function within the airport. These categories are as follows:

A. Principal Airport Nomenclature
B. Fundamental Airport Functions
C. Parking Facilities
D. Transportation Methods
E. Building Circulation
F. Services
G. Safety and Regulation
H. Concessions

Message Terminology 2.2.1

If a term is shown with a corresponding symbol, it shall always appear with its symbol unless otherwise noted.

Change Procedures for Terminology
Requesting changes for terminology shall require the same approval process as found in Large Scale - New Construction *(See section 1.3.4)*.

Symbols - Basic Requirements 2.2.2

The symbols shown shall be used to reinforce and provide visual confirmation of sign messages for pedestrians, unless otherwise noted. These symbols were selected from those for the "Guidelines for Airport Signing and Graphics; Terminals and Landside; 'Third Edition'" developed by:

DOT - Department of Transportation
AIGA - American Institute of Graphic Arts
ATA - Air Transport Association of America
AAAE - American Association of Airport Executives
ACI-NA - Airports Council International-North America
ACC - Airport Consultants Council

These symbols are in broad use around the world. They are readily identified by the international traveling public.

Symbol Restrictions
Symbols not described in this section or not shown on the following pages shall not be used. New or customized symbols not described in this manual shall not be developed for use at BOS, unless authorized by the Massachusetts Port Authority.

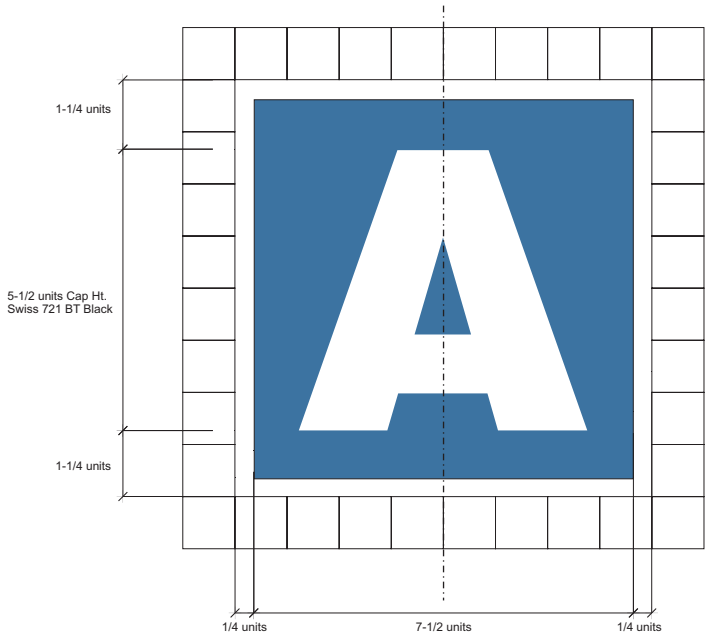
Regulatory Symbols
Symbol shape, placement and color on all vehicular regulatory signs shall conform to the Manual on Uniform Traffic Control Devices (MUTCD).

Change Procedures for Symbols
Requesting changes for symbology shall require the same approval process as found in Large Scale - New Construction.

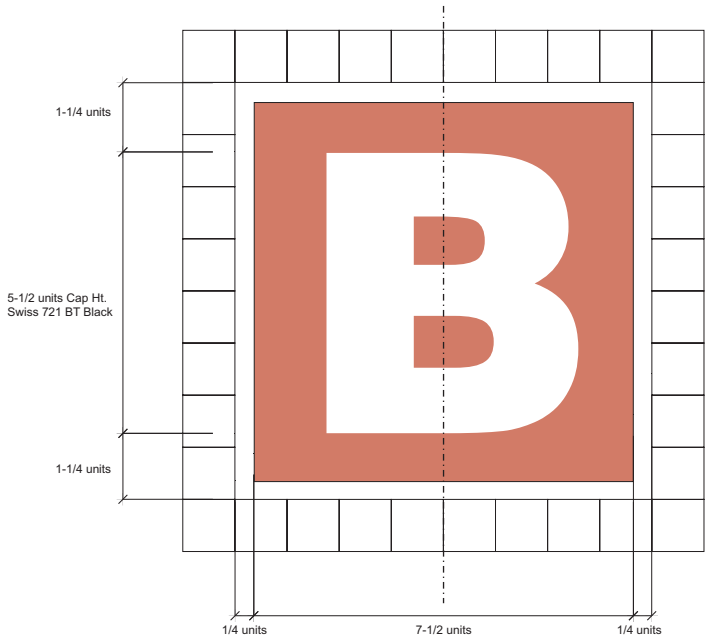
#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Terminal A Identification Icon:



Terminal B Identification Icon:



Terminal Identification Icons

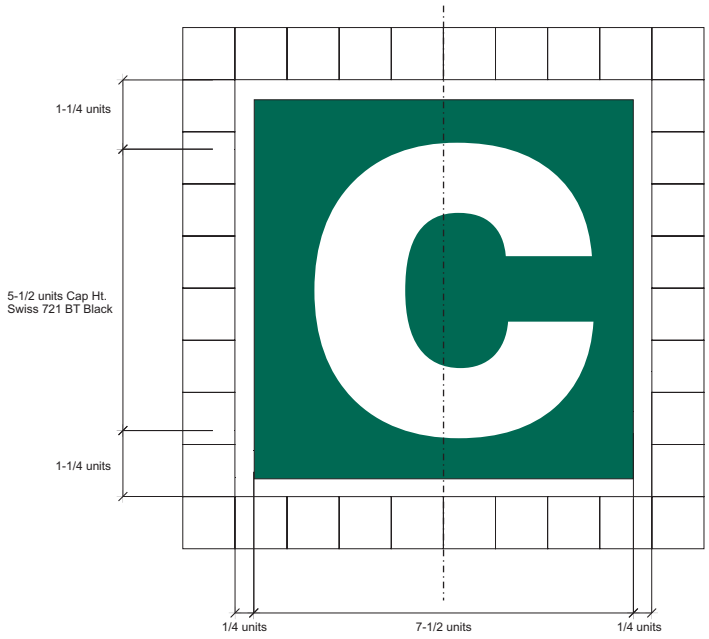
Figure 2.2.1

2.0 GRAPHIC STANDARDS

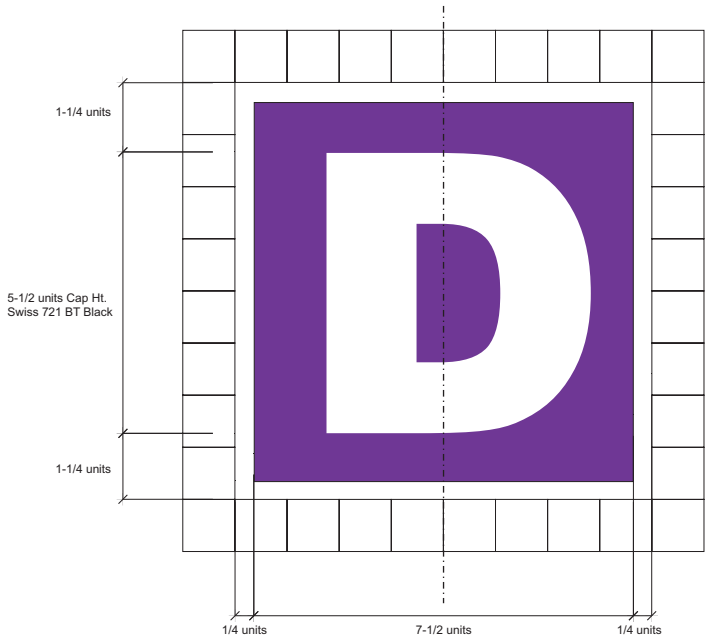
#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Terminal C Identification Icon:



Terminal D Identification Icon:



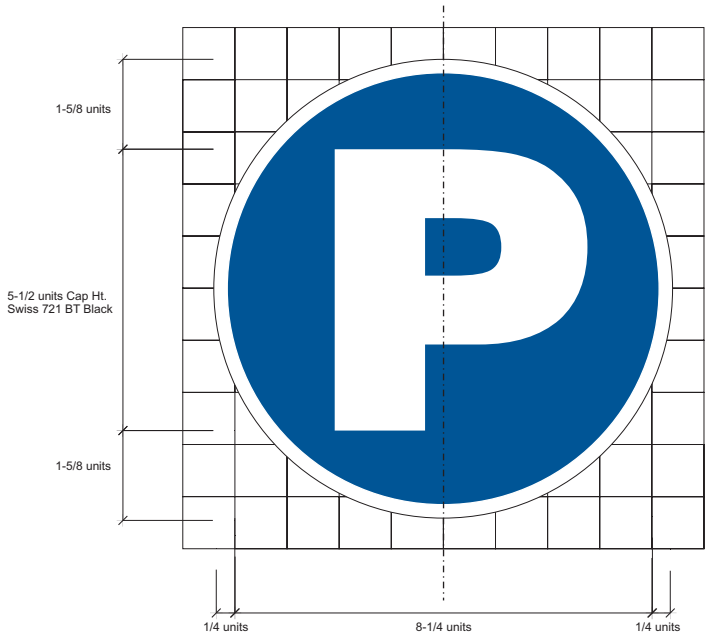
Terminal Identification Icons cont'd

Figure 2.2.1

#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Parking Identification Icon:



Terminal/Parking Identification Icons

Figure 2.2.1

#	Revision	Date

Terminology and Corresponding Symbol Applications 2.2.3

Principal Airport Nomenclature

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Terminal A		• Identifies the terminal that is designated as "A". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Terminal B		• Identifies the terminal that is designated as "B". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Terminal C		• Identifies the terminal that is designated as "C". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Terminal D		• Identifies the terminal that is designated as "D". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Parking		• Identifies the Parking facilities. • To be used as an international symbol.

Fundamental Airport Functions

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Baggage Claim		• Identifies baggage claim. • Primary information on overhead directionals.
Gates		• Identifies a gate. • Primary information on overhead directionals in the Terminals.
Ticketing		• Identifies ticketing and baggage check-in areas. • Primary information on overhead directionals in the Terminals.
Connecting Flights		• Identifies Connecting Flights. • Primary information on overhead directionals.

NOTE: The International Symbols listed in this section are those recommended by Carter and Burgess, Inc. base on the *Guidelines for Airport Signing and Graphics - Terminal and Landside, Third Edition, 2001.*

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Fundamental Airport Functions cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
International Arrivals		• Identifies the International Arrivals/meeters and greeters lobby curbside. • Symbol/ Term combination is used on directional signs only.

Parking Facilities

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Parking		• Identifies parking. • Primary information on overhead directionals terminals.

Transportation Methods

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Ground Transportation		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs and directories throughout the airport.
Active Pick-up		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Airport Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Charter Busses		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Transportation Methods cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Hotel Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Limos		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Logan Express		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Off-Airport Parking		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Rental Car Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, and ground transportation directories throughout the airport.
Rental Car		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on ground transportation identification signs

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Transportation Methods cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Scheduled Busses		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Shared Vans		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Taxis		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.

Building Circulation

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Elevator		• Identifies an elevator.
Access Elevator		• Identifies handicap accessible elevator.
Escalator		• Identifies an escalator.
Stairs		• Identifies an enclosed stairwell.
Emergency Stairs		• Identifies an Emergency stairwell.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Baggage Services		• Identifies the various airline baggage service offices. • Not used on overhead directionals.
Baggage Carts		• Identifies the baggage cart dispenser. • Not used on overhead directionals.
Currency Exchange		• Identifies a currency exchange station. • Used on directories throughout the airport. • Not used on overhead directionals.
Bank		• Identifies a bank. • Used on directories throughout the airport. • Not used on overhead directionals.
ATM/Money		• Identifies an automatic teller machine. • Used on directories throughout the airport. • Not used on overhead directionals.
First Aid		• Identifies a first aid station. • Used on directories throughout the airport. • Not used on overhead directionals.
Fire Extinguisher		• Identifies Fire Extinguisher locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Telephone		• Identifies Telephone locations. • Used on directories throughout the airport. • Not used on overhead directionals.
TDD/ TTY		• Identifies location(s) for a telecommunications device for the deaf. • Used on directories throughout the airport. • Not used on overhead directionals.
Assistive Listening		• Identifies Assistive Listening Services. • Used on directories throughout the airport. • Not used on overhead directionals.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Handicap Access		• Identifies handicap locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Information		• Identifies Information locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Restrooms		• Identifies a location at which a Men's restroom and a Women's restroom occur. • Secondary information on overhead directionals throughout the airport. • Appears on identification signage throughout the airport. • Appears on directories throughout the airport.
Access Restrooms		• Identifies a location at which a handicap accessible restroom occurs. • Appears on identification signage throughout the airport. • Appears on directories throughout the airport.
Men		• Identifies a Men's restroom. • Not used on overhead directionals..
Women		• Identifies a Women's restroom. • Not used on overhead directionals.
Assisted Care Men		• Identifies a handicap accessible Men's restroom. • Not used on overhead directionals..
Assisted Care Women		• Identifies a handicap accessible Women's restroom. • Not used on overhead directionals.
Diaper Changing Station		• Identifies a diaper changing station or nursery. • Not used on overhead directionals.
Assisted Care		• Identifies an assisted care restroom. • Not used on overhead directionals.

2.0 GRAPHIC STANDARDS

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Fax		• Identifies the location of a fax machine. • Appears on directories throughout the airport. • Not used on overhead directionals.
Postal Service		• Identifies a U.S. Mail box or Postal Office. • Appears on directories throughout the airport. • Not used on overhead directionals.
Lost and Found		• Identifies the lost and found office. • Appears on directories throughout the airport. • Not used on overhead directionals.
Hotel Information		• Identifies the location of Hotel Information. • Appears on directories throughout the airport. • Not used on overhead directionals.

Safety and Regulations

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
In-Transit Lounge		• Identifies the location of the In-Transit Lounge. • Appears on directories throughout the airport. • Not used on overhead directionals.
No Smoking		• Identifies areas where smoking is prohibited. • Not used on overhead directionals.
Smoking Permitted		• Identifies areas where smoking is permitted. • Not used on overhead directionals.
No Weapons		• Used on all FAA restrictive signage regarding the Transportation of Hazardous Materials. • Used at public entries of airport. • Not used on overhead directionals.
No Uncaged Animals		• Located at public entries of airport. • Not used on overhead directionals.
DO NOT ENTER		• Identifies a restricted area. • Not used on overhead directionals.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Safety and Regulations cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
EXIT		• Identifies a common exit to the facility. • Not used on overhead directionals.
Passport Control		• Identifies the immigration area. • Used in the FIS area only.
No Parking		• Identifies areas where parking is not permitted.
Pedestrian Caution		• Identifies areas for pedestrians where caution is recommended.

Concessions

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Food & Beverage		• Identifies category for all beverage services on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.
Food & Beverage		• Identifies category for all food services and restaurants on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.
Retail		• Identifies category for all retail services on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.

#	Revision	Date

This section defines a uniform hierarchy of messages and information to be used throughout the Boston-Logan International Airport (BOS) complex. By using the terminology set forth in this document, the designer shall be able to organize messages into three succinct categories: Primary, Secondary, and Tertiary.

Message Functions 2.3.1

Directional Messages
Directional messages are of great importance in the facility due to the fact that they are the main information source that enables passengers and visitors to choose the proper route to a specific destination point. This process involves selecting the correct path to a destination point and determining at which point a change of direction is required. Proper directional signing is necessary since the rapid movement of vehicles, visitors, employees, and passengers is essential for maximum utilization and efficiency of the facility.

Identification Messages
Identification messages mark terminals, gates, ticketing, and baggage claim locations, as well as, provide tenants' leasing space within the BOS complex with proper public exposure to their areas and other spaces governed by the airport authority.

Informational Messages
Informational messages typically provide specific and supplementary information about the airport services and functions. Also there are orientational messages that are often graphic, such as maps, so that visitors can develop a sense of the airport layout and their location within the airport.

Regulatory/ Safety Messages
Regulatory/safety messages relate to Federal Aviation Administration (FAA) requirements and recommendations as well as other federal, state, and city regulations. In general, these messages provide passengers with travel advice, warnings and legal restrictions.

Temporary Messages
Temporary messages fall into a separate category of messages. Temporary signs shall be used on an interim basis while permanent signs are in the process of repair or maintenance and as tentative signs while permanent signs are under construction.

.

#	Revision	Date

Message Hierarchy Relationships 2.3.2

Clear and concise information presented by Primary and Secondary signing systems ensures efficient passenger circulation. Tertiary signs must be coordinated with Primary and Secondary signs and interior design elements. This category of signs shall be distinguished from other signs by graphic methods.

Primary Messages
This information shall be the largest and most visible information on each sign. Primary information shall include:

- Interior direction to and identification of Terminals, Baggage Claim, Gates, Ticketing, Ground Transportation, Parking, etc.

Secondary Messages
This information supplements or reinforces information already conveyed by the primary messages and signs listed above. It usually indicates the auxiliary services and support functions of the facility. Secondary information is to include:

- Interior direction and identification of Restrooms, airline names, and Parking.
- Interior identification of Concessions, Telephones, Elevators and Restaurants.

Tertiary Messages
Tertiary information supplements both the primary and secondary messages and is usually intended to inform visitors of regulations and warnings. All of the regulatory/ safety signs are generally considered to be tertiary. Tertiary information is to include:

- All "No Smoking" messages
- FAA required warning and information
- Other messages required by code

Functions and Hierarchy Relationships
It is important to understand that the same message may fall under a different category depending on its use. For example, a visitor on the roadway approaching the Terminal may find the term "Parking" as the primary message. However, the same term may also be found by a visitor in the terminal and considered secondary.

In general, emphasis shall be placed on the reduction of signs and sign content where possible. Additionally, the sign system shall move from the general to the more specific, as a user traverses the terminal.

#	Revision	Date

Message Hierarchy Relationships cont'd. 2.3.2

Functions and Hierarchy Relationships (cont'd):
Critical to the smooth flow of pedestrian traffic is the need for visual continuity amongst messages and information of the same hierarchy, thus eliminating any elements which may interrupt the scheme or confuse the visitors.

The relationship between message function and message hierarchy serves to create a foundation for the classification of and determination of basic sign types. The tables on the following pages illustrate this relationship for the interior messages required for BOS.

#	Revision	Date

Message Hierarchy Relationships cont'd. 2.3.2

Figures 2.3.1 and 2.3.2 demonstrate the hierarchy in which the messages are organized when signing for the terminal areas within the facility. The message hierarchy is used to assist designers in grouping messages for directional, identification and information sign types. Primary messages should always be grouped with primary messages. If there is need for a secondary message on the same sign, its importance will always be secondary to all primary messages. The designer may have to place the secondary message on a secondary sign type. All tertiary information shall come third in relation to hierarchy from primary and secondary messages on all sign types.

The following figures list acceptable terminology for directional, identification, information/orientation, and regulatory/safety messages. These figures list terminology in sequence of primary, secondary, and tertiary messages for the Baggage Claim and Gate areas.

Message Hierarchy: Terminal - Ticketing, Baggage Claim

MESSAGE FUNCTION	PRIMARY	SECONDARY	TERTIARY
Directional	Terminals A, B, C, D Baggage Claim Ticketing Gates Ground Transportation Parking International Arrivals	Restrooms* Connecting Flights Elevators Airline Lounges	Telephones Restrooms
Identification	Terminals A, B, C, D Arrivals Departures Gates International Arrivals Baggage Claim ID	Elevators Telephones Concessions/ Retailers Restrooms (Men/Women)* Airline Baggage Service Office Airline Names Airline Lounges/Clubs	ADA Restroom Emergency Telephone Fire Extinguisher Room/Door I.D.
Information or Orientation	Airport Directory MUFIDS BIDS Terminal Directory Ground Transportation Directory	Visual Paging	Be Careful. Watch Your Step. Many Bags Look Alike Special Baggage On....
Regulatory or Safety	Exit Emergency Exit Only No Smoking All FAA notices and required signs Authorized Personnel Only Do Not Enter		

Message Hierarchy: Terminal-Ticketing, Baggage Claim

Figure 2.3.1



Terminal - Message Hierarchy

FUNCTION	PRIMARY
Directional	Terminals A, B, C, D Baggage Claim Ticketing Gates Ground Transportation Parking International Arrivals

Dir. Primary Message Hierarchy Example: Terminal-Ticketing, Baggage Claim
N.T.S.

Figure 2.3.2

#	Revision	Date

Message Hierarchy Relationships cont'd. 2.3.2

Message Hierarchy: Terminal - Gates

MESSAGE FUNCTION	PRIMARY	SECONDARY	TERTIARY
Directional	Terminals A, B, C, D Baggage Claim Gates Restrooms Connecting Flights Passport Control	Elevators	Telephones Restrooms
Identification	Gates	Gates Restrooms Elevator Concessions/Retailers Telephones	ADA Restroom Emergency Telephone Fire Extinguisher Room/Door I.D.
Information or Orientation	Airport Directory Terminal Directory MUFIDS BIDS		Be Careful. Watch Your Step.
Regulatory or Safety	Exit Emergency Exit Only No Smoking All FAA notices and required signs Authorized Personnel Only Do Not Enter		

Message Hierarchy: Terminal-Gates

Figure 2.3.3



Directional Primary Message Hierarchy Example: Terminal-Gates
N.T.S.

Figure 2.3.4

#	Revision	Date

The arrow standards and applications portion of this document shall define the standards for arrow orientation, sizes, application and placement on directional signage at Boston-Logan International Airport (BOS).

Arrow symbols used as directional elements are more flexible and require less sign layout space than messages. Careful review of sign layouts must be done in order to produce proper proportioning between arrows, messages, symbols and sign panel dimensions *(see Arrow Placement Figure 2.4.4 for placement examples)*.

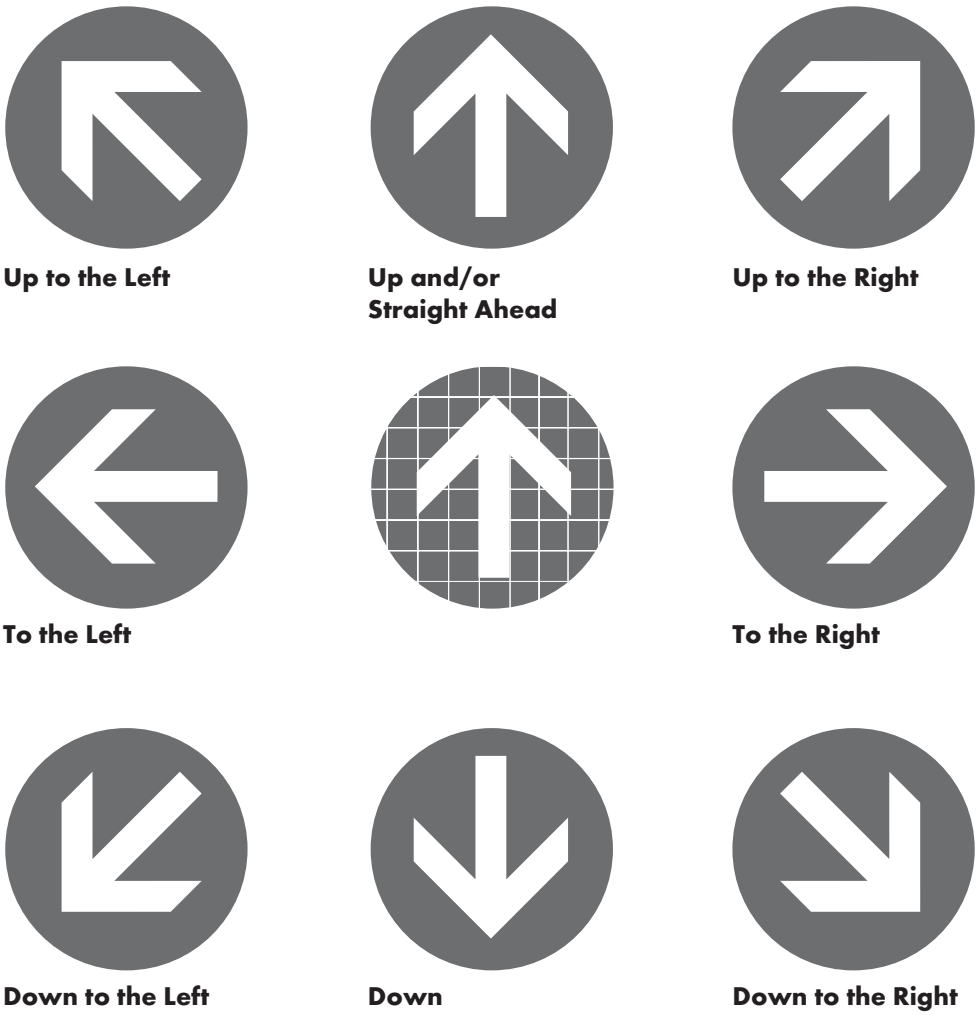
Arrow Orientations 2.4.1

The orientation and directional information that arrow symbols intend to convey is of equal importance to the consistent use of the recommended single style arrow. The arrow orientation to convey "straight ahead" is of particular interest. Either "up arrow" or the "down arrow" can be used. Once a method has been selected for the "straight ahead" arrow orientation, consistent application should be continued throughout the signage system. The following are a few guidelines for the use of arrows:

- The standard arrow can be rendered in eight (8) different orientations. No alternate orientations are acceptable, unless approved by Massport.
- Interior Signs: Arrow orientation should follow the guidelines provided in this section. Straight-ahead pedestrian movement should be indicated by upward-facing arrows, unless a downward-facing arrow can be shown to be clearly advantageous in a specific circumstance. Straight downward-facing arrows are normally reserved to indicate movement to a lower level *(see Figure 2.4.1)*.

#	Revision	Date

Arrow Orientations cont'd. 2.4.1



Arrow Orientation
N.T.S.

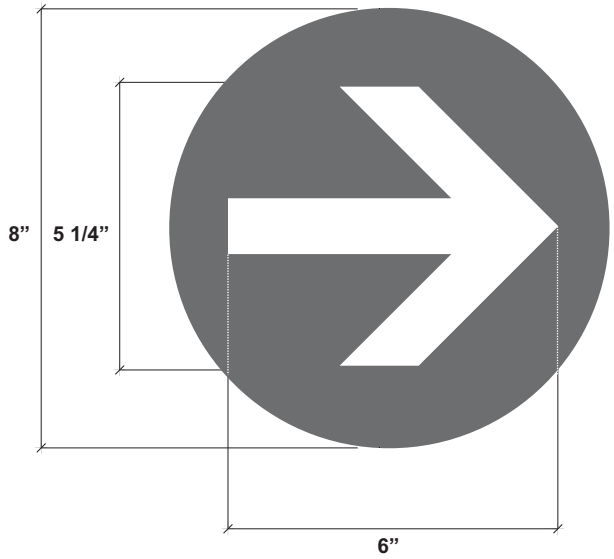
Figure 2.4.1

#	Revision	Date

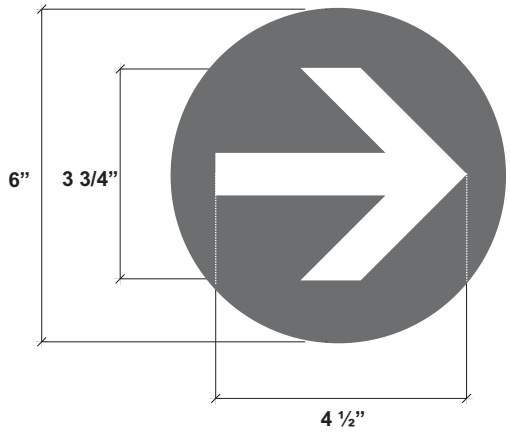
Arrow Sizes 2.4.2

These figures define the two arrow sizes that shall be used throughout the terminals. All primary directional signs shall utilize a 6" x 5 1/4" arrow size. All secondary directional signs shall use a 4 ½"x 3 ½"arrow size

Primary/Secondary



Secondary

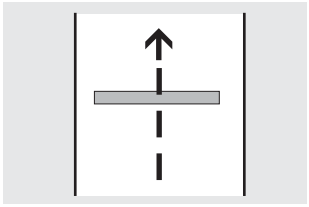
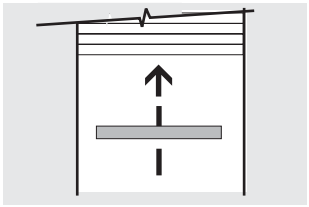
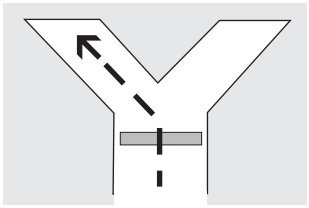
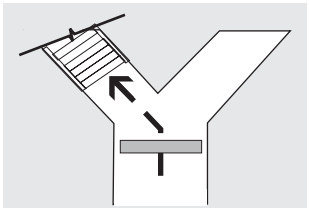
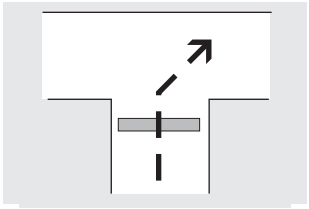
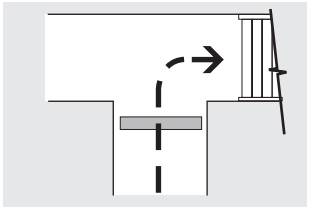


Arrow Sizes
N.T.S

Figure 2.4.2

#	Revision	Date

Arrow Application/Orientation 2.4.3

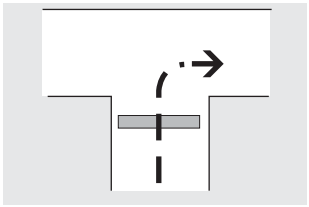
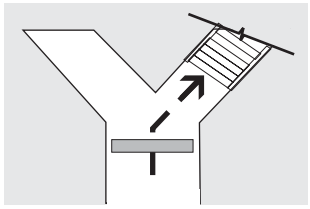
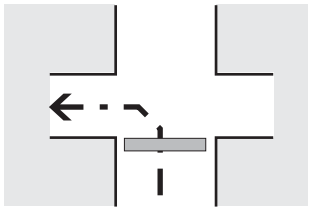
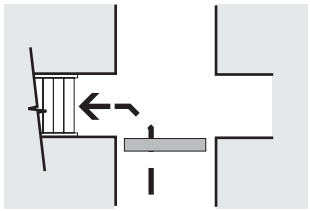
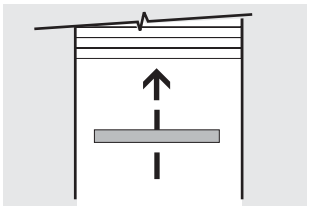
APPLICATION/ ORIENTATION	LOCATION PLAN	INTERPRETATION
		Straight Ahead
		Up
		Ahead on Left
		Up on Left
		Ahead on Right
		Up on Right

Arrow Application
N.T.S.

Figure 2.4.3

#	Revision	Date

Arrow Application/Orientation cont'd. 2.4.3

APPLICATION/ ORIENTATION	LOCATION PLAN	INTERPRETATION
		Right
		Down on Right
		Left
		Down on Left
		Down

Arrow Application
N.T.S.

Figure 2.4.3

2.0 GRAPHIC STANDARDS

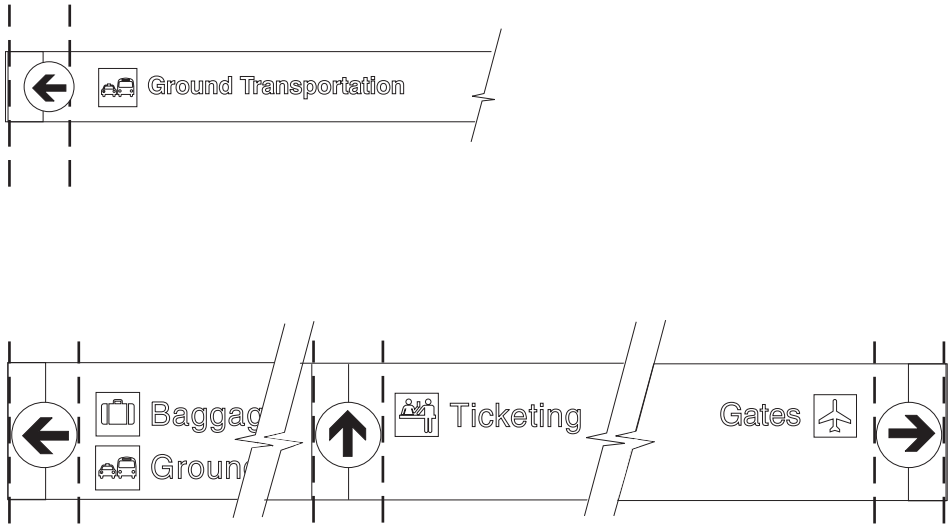
#	Revision	Date

Arrow Placement 2.4.4

The placement of arrows on sign faces should conform to the standard guidelines provided. Arrows may not be positioned in any other location on the sign face.

The following are placement guidelines and restrictions:

- Arrows should NOT point into text.
- Left-facing arrows should be located on the left side of signs, and right-facing arrows should be located on the right side of signs.
- Upward-facing arrows are normally located closest to the flow of traffic.
- Interior Signs: Arrows should be held within a designated vertical column along the left or right side of the message area *(see Figure 2.4.4)*.



* See Sign Type section 3.0 for arrow location dimensions

Arrow Placement
N.T.S.

Figure 2.4.4

#	Revision	Date

This section of the document shall specify colors and applications that are to be used in the terminal(s).

Color Specifications 2.5.1

Sign Color System - Terminal

Color Application	Color	Pantone Equivalent	Vinyl Equivalent	Paint Equivalent
Sign Face	Black	*Process Black*	*3M Black Opaque* Film #7725-12*	*MAP Paint* 41-335 Black Anodic*
Text	White	*White*	*3M Translucent White* Film #3630-20*	*MAP Paint* 42-202 Natural White*
Arrows International Symbols	White	*White*	*3M Translucent White* Film #3630-20*	*MAP Paint* 42-202 Natural White*
Terminal Identification Terminal A	Blue	*PMS 300*	*3M Translucent Intense Blue # 230/230-127*	*3M# 220/225-47 Intense Blue*
Terminal B	Red	*PMS 186*	*3M Translucent Red # 230/230-33*	*3M# 220/225-13 Tomato Red*
Terminal C	Green	*PMS 336*	*3M Translucent Green # 230/230-26*	*3M# 220/225-186 Bright Green*
Terminal D	Purple	*PMS 2593*	*3M Dark Violet # 220-98*	*3M# Color to match PMS 2593c*
Parking Identification	Blue	*Color to match PMS 294C*	*3M Vivid Blue* Film # 220-17*	*Color to match PMS 294C*
Neutral Identification	70% Black	*Color to match 70% Process Black*	3M Opaque Film (Dark Gray) #7725-41	*MAP Paint* to match 70% Process Black*
Kickplates Endcaps Directory Caps Terminal ID Letters	Aluminum Finish	*N/A*	*N/A*	*N/A*

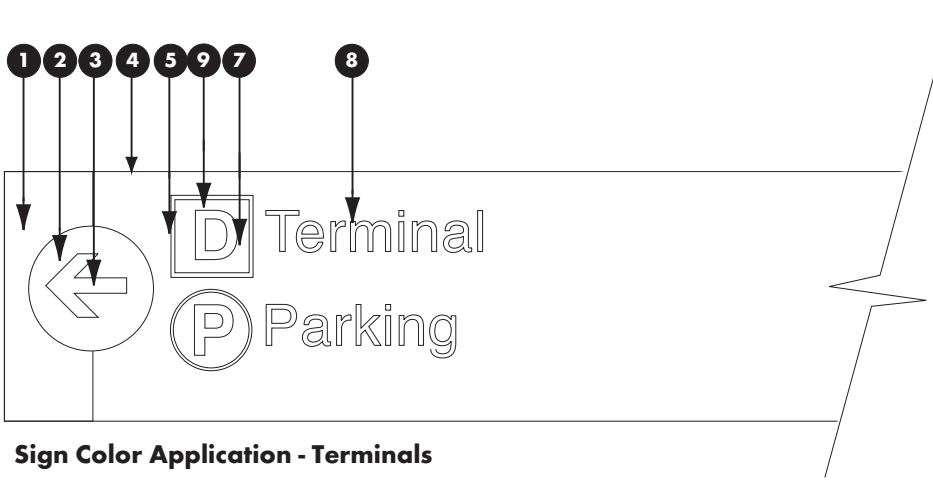
* or approved equal

Color Specification
N.T.S.

Figure 2.5.1

#	Revision	Date

Color Application 2.5.2



Sign Color Application - Terminals

Color Application	Color
1 **Arrow Panel**	
In Terminal A	Blue
In Terminal B	Red
In Terminal C	Green
In Terminal D	Purple
2 **Arrow Background**	70% Black
3 **Arrows**	White
4 **Sign Face**	Black
5 **Symbol Frame**	White
6 **Symbol Background**	*Black (Int'l Symbols)* *Vivid Blue (Parking Symbol)*
7 **Symbol Image**	White
8 **Text**	White
9 **Terminal Identification:**	
Terminal A	Blue
Terminal B	Red
Terminal C	Green
Terminal D	Purple

Color Application Examples
N.T.S.

Figure 2.5.2

#	Revision	Date

Identification System 3.1.1

Series 100 - Terminals

Sign No.	Description
101 - 150	Directional
151 - 180	Identification
181 - 199	Informational

Series 200 - Curbside

Sign No.	Description
201 - 250	Directional
251 - 280	Identification
281 - 299	Informational

Series 300 - Parking

Sign No.	Description
301 - 350	Directional
351 - 380	Identification
381 - 399	Informational

Series 400 - Roadways

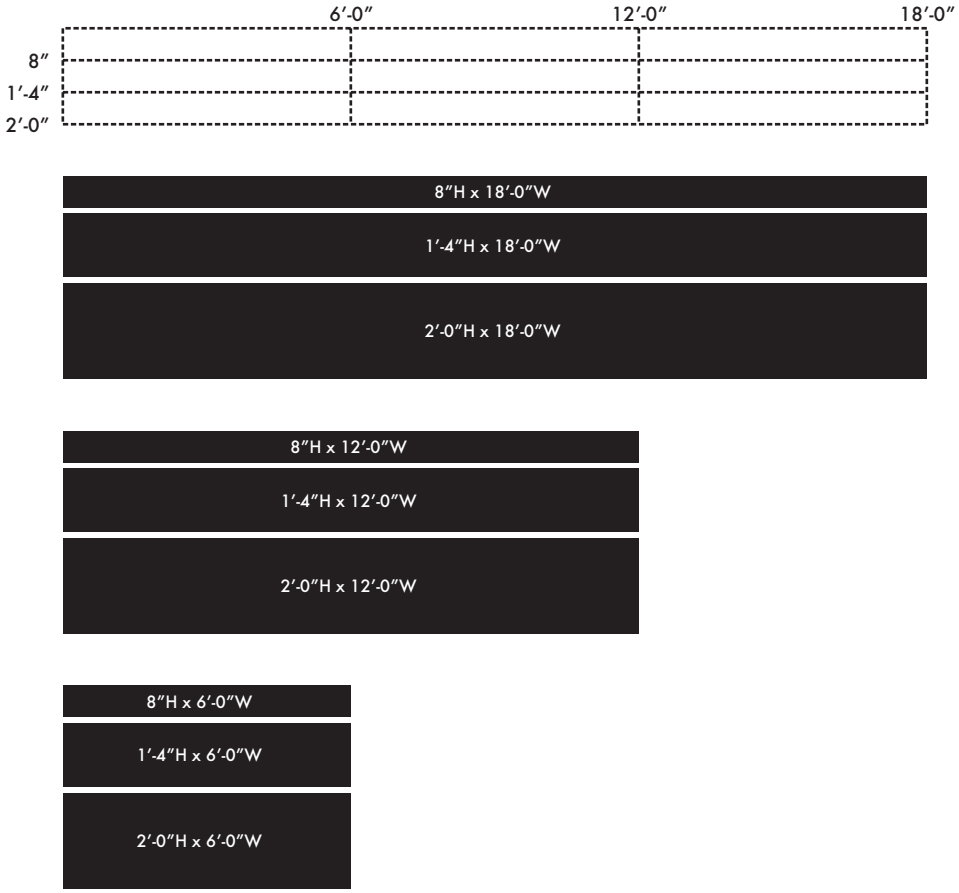
Sign No.	Description
401 - 450	Directional
451 - 480	Identification
481 - 499	Informational

Series 500 - Airport Services Buildings

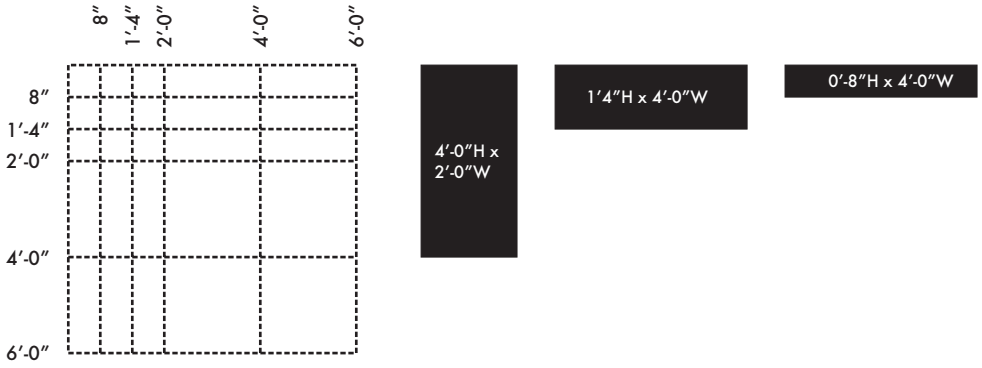
Sign No.	Description
501 - 550	Directional
551 - 580	Identification
581 - 599	Informational

#	Revision	Date

Directional - Primary 3.2.1



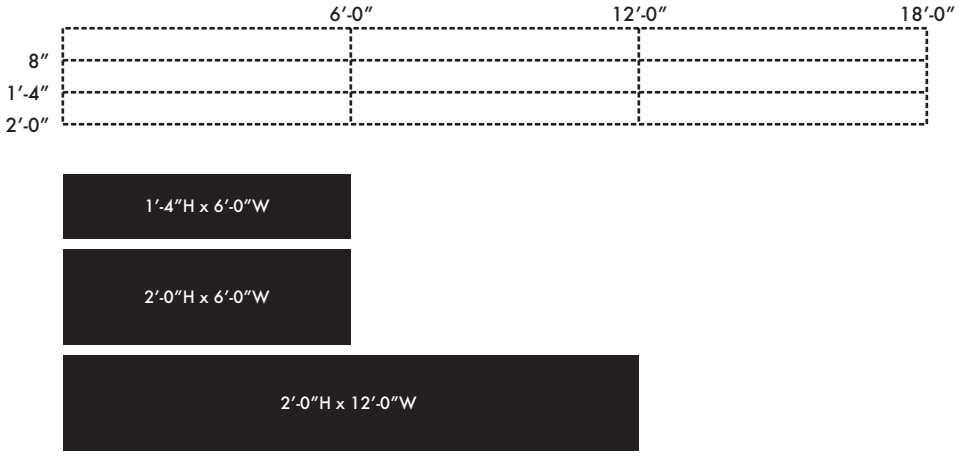
Directional - Secondary 3.2.2



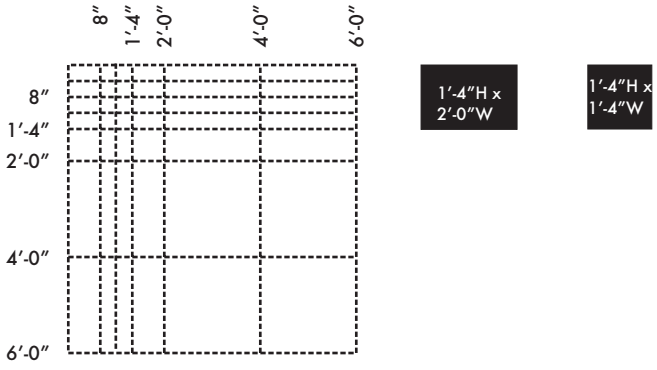
3.0 SIGN TYPES - TERMINALS

#	Revision	Date

Identification - Primary 3.2.3



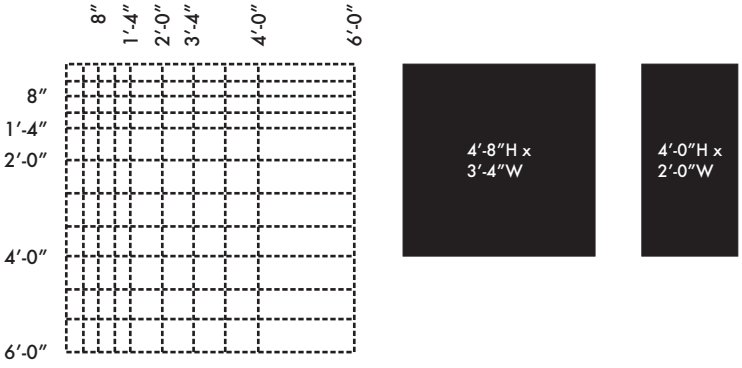
Identification - Secondary 3.2.4



3.0 SIGN TYPES - TERMINALS

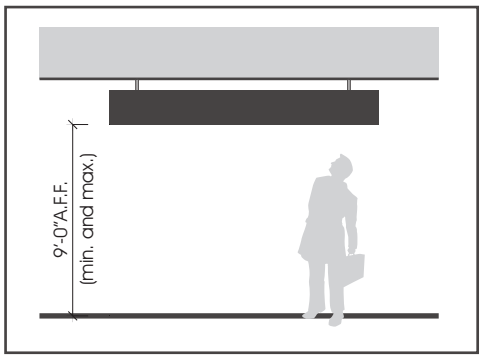
#	Revision	Date

Informational - Primary / Secondary 3.2.5

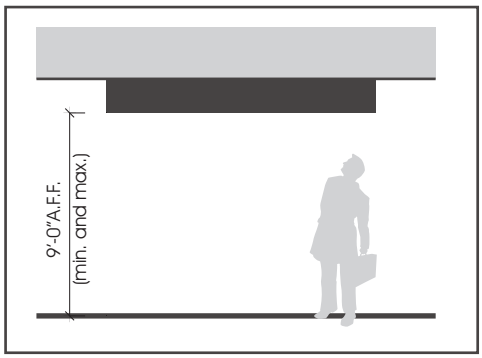


#	Revision	Date

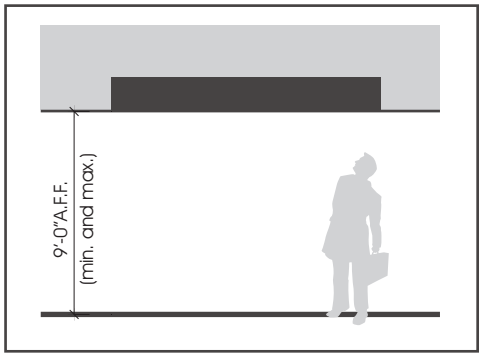
Directional - Primary 3.3.1



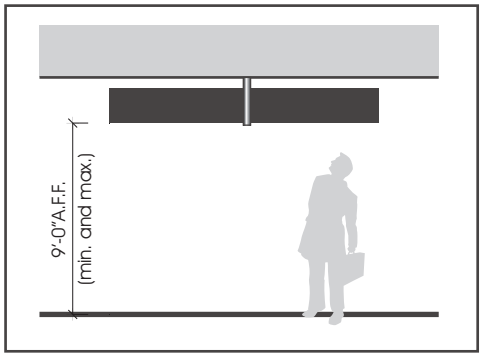
CEILING SUSPENDED



CEILING MOUNTED



SOFFIT MOUNTED



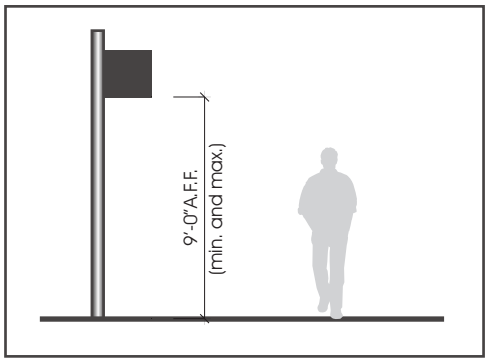
CEILING SUSPENDED



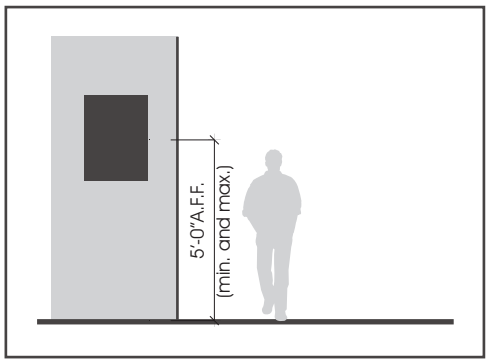
POST MOUNTED

#	Revision	Date

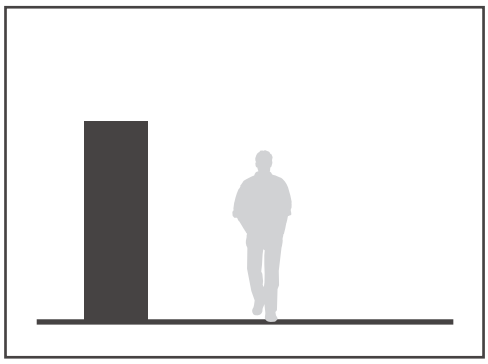
Directional - Secondary 3.3.2



POST MOUNTED



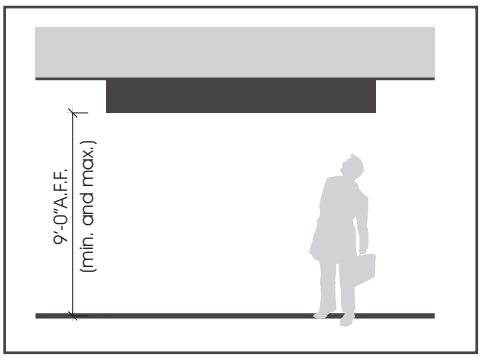
WALL MOUNTED



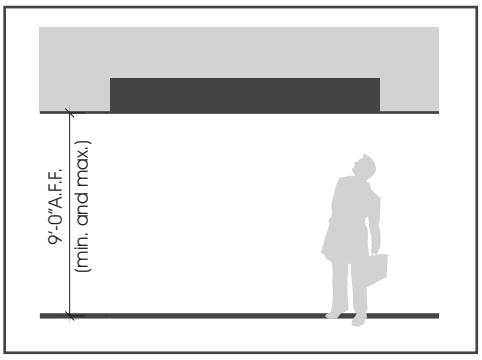
FLOOR MOUNTED

#	Revision	Date

Identification - Primary 3.3.3

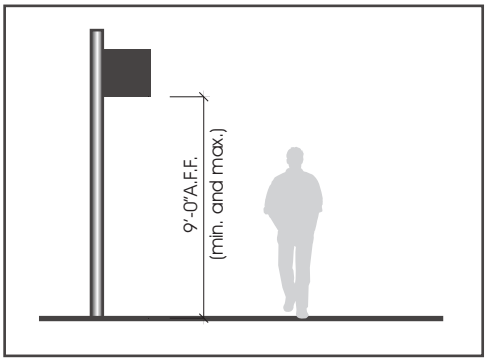


CEILING MOUNTED

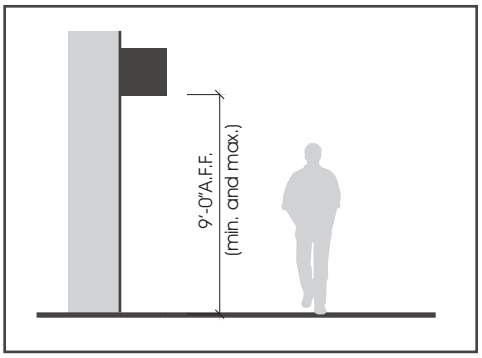


SOFFIT MOUNTED

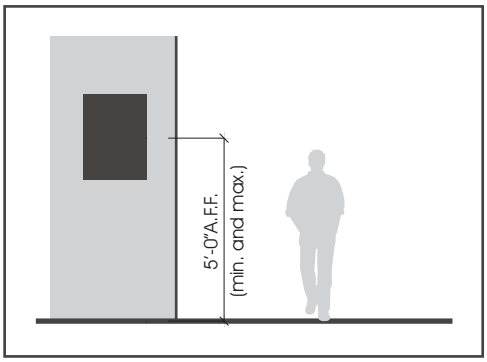
Identification - Secondary 3.3.4



POST MOUNTED



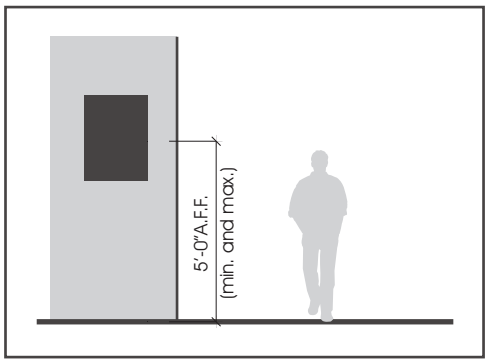
FLAG MOUNTED



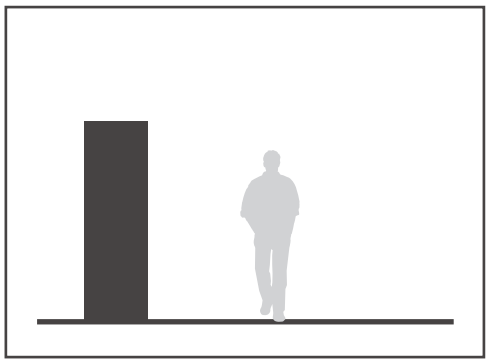
WALL MOUNTED

#	Revision	Date

Informational - Primary / Secondary 3.3.5



WALL MOUNTED

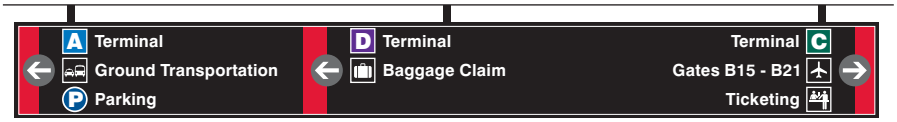


FLOOR MOUNTED

#	Revision	Date

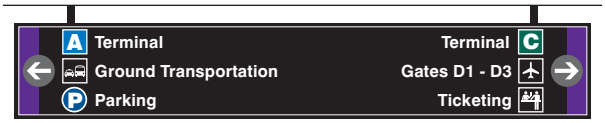
Directional - Primary 3.4.1

Overhead suspended ST - 101



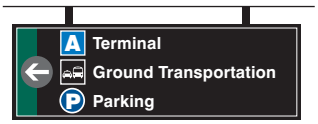
- Description: Three directional - Three levels of messaging
- Overall Dimensions: 18'-0"L x 2'-0"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 6" Arrow Size
- 6" Symbol Ht
- Refer to Section 3.5 for alternate layouts including secondary messaging.

Overhead suspended ST - 102



- Description: Two directional - Three levels of messaging
- Overall Dimensions: 12'-0"L x 2'-0"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 6" Arrow Size
- 6" Symbol Ht
- Refer to Section 3.5 for alternate layouts including secondary messaging.

Overhead suspended ST - 103



- Description: One directional - Three levels of messaging
- Overall Dimensions: 6'-0"L x 2'-0"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 6" Arrow Size
- 6" Symbol Ht
- Refer to Section 3.5 for alternate layouts including secondary messaging.

#	Revision	Date

Directional - Primary cont'd. 3.4.1

Overhead suspended ST - 104



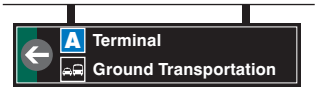
- Description: Three directional - Two levels of messaging
- Overall Dimensions: 18'-0"L x 1'-4"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 6" Arrow Size
- 6" Symbol Ht
- Refer to Section 3.5 for alternate layouts including secondary messaging.

Overhead suspended ST - 105



- Description: Two directional - Two levels of messaging
- Overall Dimensions: 12'-0"L x 1'-4"H x7 1/1 6"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 6"Arrow Size
- 6" Symbol Ht
- Refer to Section 3.5 for alternate layouts including secondary messaging.

Overhead suspended ST - 106



- Description: One directional - Two levels of messaging
- Overall Dimensions: 6'-0"L x 1'-4"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 6" Arrow Size
- 6" Symbol Ht
- Refer to Section 3.5 for alternate layouts including secondary messaging.

#	Revision	Date

Directional - Primary cont'd. 3.4.1

Overhead suspended ST - 107



- Description: Three directional - One levels of messaging
- Overall Dimensions: 18'-0"L x 8"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 3 3/4" Arrow Size
- 4" Symbol Ht

Overhead suspended ST - 108



- Description: Two directional - One levels of messaging
- Overall Dimensions: 12'-0"L x 0'-8"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 3 3/4" Arrow Size
- 4"" Symbol Ht

Overhead suspended ST - 109

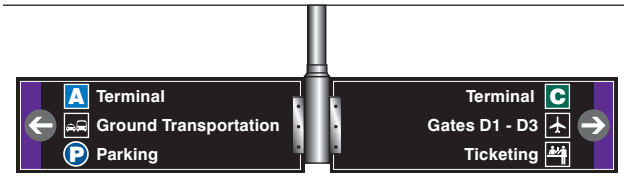


- Description: One directional - One level of messaging
- Overall Dimensions: 6'-0"L x 0'-8"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 3 3/4" Arrow Size
- 4" Symbol Ht

#	Revision	Date

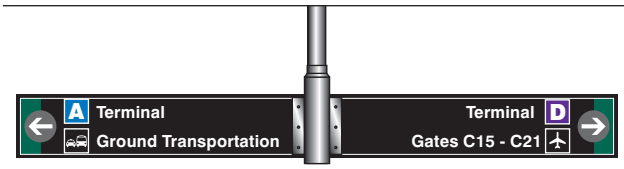
Directional - Primary cont'd. 3.4.1

Overhead suspended with pole ST - 110



- Description: Two directional - Three levels of messaging
- Overall Dimensions: (each sign face) 6'-0"L x 2'-0"H x 7 1/16"D
  Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 6" Arrow Size
- 6" Symbol Ht

Overhead suspended with pole ST - 111



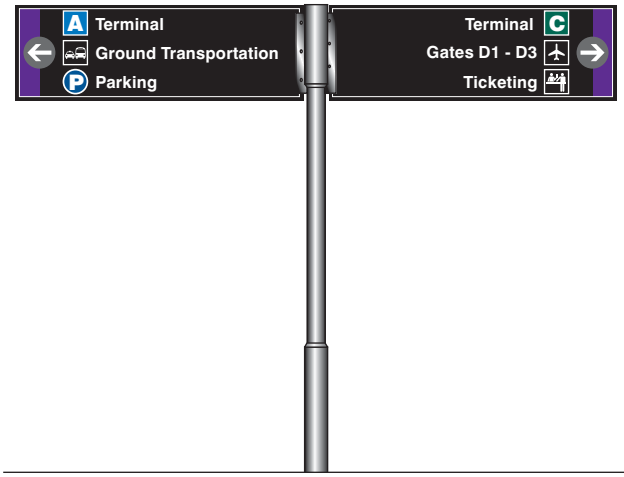
- Description: Two directional - Two levels of messaging
- Overall Dimensions: (each sign face) 6'-0"L x 1'-4"H x7 1/16"D
  Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3"Cap Ht
- 6"Arrow Size
- 6" Symbol Ht

#	Revision	Date

Directional - Primary cont'd. 3.4.1

Post mount

ST - 112



- Description: Two directional - Three levels of messaging
- Overall Dimensions: (each sign face) 6'-0"L x 2'-0"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 6" Arrow Size
- 6" Symbol Ht

Post mount

ST - 113



- Description: Two directional - Two levels of messaging
- Overall Dimensions: (each sign face) 6'-0"L x 1'-4"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht
- 6"Arrow Size
- 6" Symbol Ht

#	Revision	Date

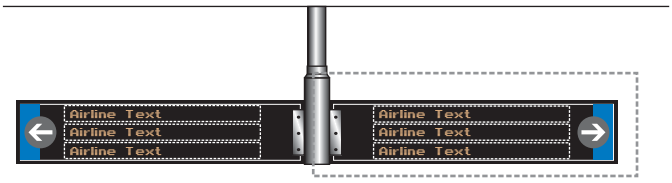
Directional - Primary cont'd. 3.4.1

Overhead suspended ST - 121



- Description: (Dynamic) Two directional - Three levels of messaging
- Overall Dimensions: 12'-0"L x 2'-0"H x7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht. Dynamic text
- 6" Arrow Size

Overhead suspended with pole ST - 122



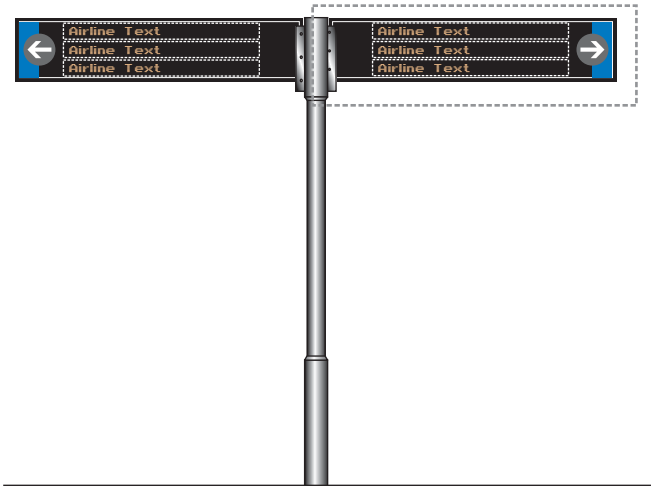
- Description: (Dynamic) Two directional - Three levels of messaging
- Overall Dimensions: (each sign face) 6'-0"L x 2'-0"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht. Dynamic text
- 6" Arrow Size

#	Revision	Date

Directional - Primary cont'd. 3.4.1

Post mount

ST - 123



- Description: (Dynamic) Two directional - Three levels of messaging
- Overall Dimensions: (each sign face) 6'-0"L x 2'-0"H x 7 1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht. Dynamic text
- 6" Arrow Size
- 6" Symbol Ht

#	Revision	Date

Directional - Secondary 3.4.2

Wall mount ST - 124



- Description: One directional - Two levels of messaging
- Overall Dimensions: 4'-0"L x 1'-4"H x 3"D
- Used in secondary circulation corridors perpendicular to main pedestrian traffic flow.
- Non-illuminated
- 3" Cap Ht
- 6" Arrow Size
- 4" Symbol Ht

Wall mount ST - 125



- Description: One directional - One level of messaging
- Overall Dimensions: 4'-0"L x 8"H x 3"D
- Used in secondary circulation corridors perpendicular to main pedestrian traffic flow.
- Non-illuminated
- 3" Cap Ht
- 6" Arrow Size
- 4" Symbol Ht

Flag mount ST - 126



- Description: One directional - Three levels of messaging
- Overall Dimensions: 4'-0"L x 1'-4"H x 3"D
- Used in secondary circulation corridors perpendicular to main pedestrian traffic flow.
- Non-illuminated
- 3" Cap Ht
- 6" Arrow Size
- 4" Symbol Ht
- Refer to Section 3.5 for alternate layouts including secondary messaging.

#	Revision	Date

Directional - Secondary cont'd. 3.4.2

Flag mount ST - 127



- Description: One directional - One level of messaging
- Overall Dimensions: 4'-0"L x 8"H x 3"D
- Used in secondary circulation corridors perpendicular to main pedestrian traffic flow.
- Non-illuminated
- 3" Cap Ht
- 6" Arrow Size
- 4" Symbol Ht

Floor mount ST - 128

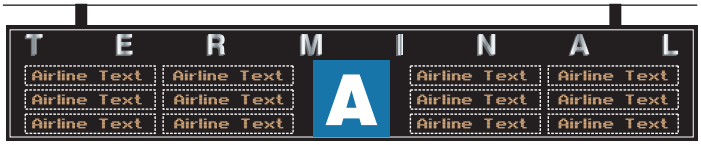


- Description: Two directional - Six levels of messages
- Overall Dimensions: 2'-0"L x 4'-0"H x 3"D Base Dimensions: 2'-0"L x 2'0"H x 4"D
- Used in secondary circulation corridors perpendicular to main pedestrian traffic flow.
- Non-illuminated
- 1" Cap Ht
- 4.5" Arrow Size

#	Revision	Date

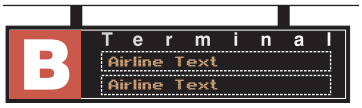
Identification - Primary 3.4.3

Overhead suspended ST - 151



- Description: Terminal ID - Airline Listing
- Overall Dimensions: 12'-0"L x 2'-0"H x 7 1/16"D
- Used at primary terminal entrances.
- Illuminated
- 5" Cap Ht
- 3" Dynamic text
- 12" Terminal letter
- 735% Kearning

Overhead suspended ST - 152



- Description: Terminal ID - Airline Listing
- Overall Dimensions: 6'-0"L x 1'-4"H x 7 1/16"D
- Used at terminal entrances.
- Illuminated
- 3" Cap Ht
- 3" Dynamic text
- 12" Terminal letter
- 410% Kearning

Overhead suspended ST - 153



- Description: Gate ID - Airline Listing
- Overall Dimensions: 12'-0"L x 2'-0"H x 7 1/16"D
- Used at primary gate area entrances prior to security check points.
- Illuminated
- 6" Cap Ht
- 3" Dynamic text
- 9" Terminal letter
- 45% Kearning

#	Revision	Date

Identification - Secondary 3.4.4

Flag mount ST - 154



- Description: Gate ID
- Overall Dimensions: 2'-0"L x 1'-4"H x 7 1/16"D
- Used at gate hold room locations.
- Illuminated
- 3" Cap Ht
- 7" Gate number
- 7" Terminal letter

Flag mount ST - 155



- Description: Services ID (restroom, elevators, telephone)
- Overall Dimensions: 1'-4"L x 1'-4"H x 3 7/32"D
- Used at location of services (restroom, elevator, telephone).
- Non-illuminated
- Size of symbol: 9.875"

Wall Mount ST - 156



- Description: Services ID with braille
- Overall Dimensions: 1'-4"L x 0'-8"H x 1"D
- Used at location of services and stairs.
- Non-illuminated
- Size of symbol: 6"

#	Revision	Date

Identification - Secondary 3.4.4

Wall mount **ST - 157**



- Description: Level ID
- Overall Dimensions: 1'-0"L x 0'-8"H x 1"D
- Used at locations close to stairs to identify levels.
- Non-Illuminated
- 5" Cap Ht level number
- 1" Cap Ht text

Wall mount **ST - 158**



- Description: Room ID with braille
- Overall Dimensions: 1'-0"L x 0'-8"H x 1"D
- Used at room entrances.
- Non-illuminated
- 1" Cap Ht text
- 3/4" Cap Ht room number

Wall Mount **ST - 159**

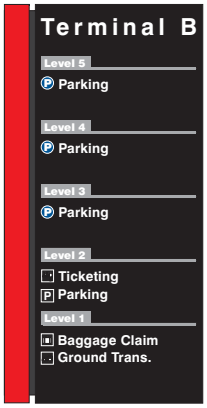


- Description: Room ID
- Overall Dimensions: 1'-0"L x 0'-4"H x 1"D
- Used at room entrances.
- Non-illuminated
- 3/4" Cap Ht

#	Revision	Date

Identification - Secondary 3.4.4

Wall Mount ST - 160



- Description: Elevator Plaque
- Overall Dimensions: 1'-0"L x 2'-0"H x 1/4"D
- Used inside elevators.
- Non-Illuminated
- 5/8"Cap Ht

Overhead Suspended ST - 161



- Description: Baggage Claim ID
- Overall Dimensions: 2'-0"L x 1'-4"H x 3"D
- Used at Baggage Claim carousels.
- Non-Illuminated
- 9"Cap Ht
- Size of symbol: 10"

#	Revision	Date

Identification - Secondary 3.4.4

Flag Mount ST - 162



- Description: Baggage Claim ID
- Overall Dimensions: 2'-0"L x 1'-4"H x 3"D
- Used at Baggage Claim carousels.
- Non-Illuminated
- 9"Cap Ht
- Size of symbol: 10"

Wall Mount ST - 163



- Description: Massport Door ID Plaque
- Overall Dimensions: 1'-4"L x 1'-0"H x 1"D
- Used at office doors.
- Non-Illuminated
- 1"Cap Ht

Pin Mount Letters ST - 164



- Description: Information Booth Header
- Overall Dimensions: 0'-8"H x ½"D
- Used at Information Booths.
- Non-Illuminated
- 4 ½" Cap Ht

#	Revision	Date

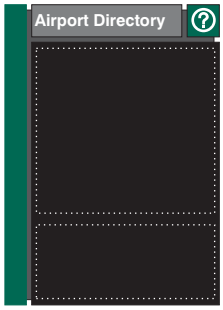
Informational - Primary / Secondary 3.4.5

Wall mount ST - 181



- Description: Elevator directory
- Overall Dimensions: 2'-0"L x 4'-0"H x 3"D
- Used at elevator locations.
- Non-illuminated
- 2" Terminal and number Cap Ht
- 1" Ticketing / Check-In Cap Ht
- NOTE: Interior artwork to be provided by Massport.

Wall mount ST - 182



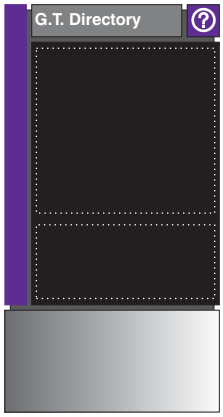
Notes: See section 3.5 Sign Type layouts (ST-182) for alternate header messages.

- Description: Terminal Directory
- Overall Dimensions: 3'-4"L x 4'-8"H x 3"D
- Used in primary circulation corridors parallel to main pedestrian traffic flow.
- Non-illuminated
- 2.25" Cap Ht
- 3" Symbol Ht
- NOTE: Directory frame may be used for different types of directories such as Terminal Directories, Airport Directories, etc. Interior artwork to be provided by Massport.

#	Revision	Date

Informational - Primary / Secondary cont'd. 3.4.5

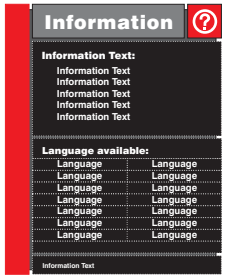
Floor mount ST - 183



Notes: See section 3.5 Sign Type layouts (ST-183) for alternate header messages.

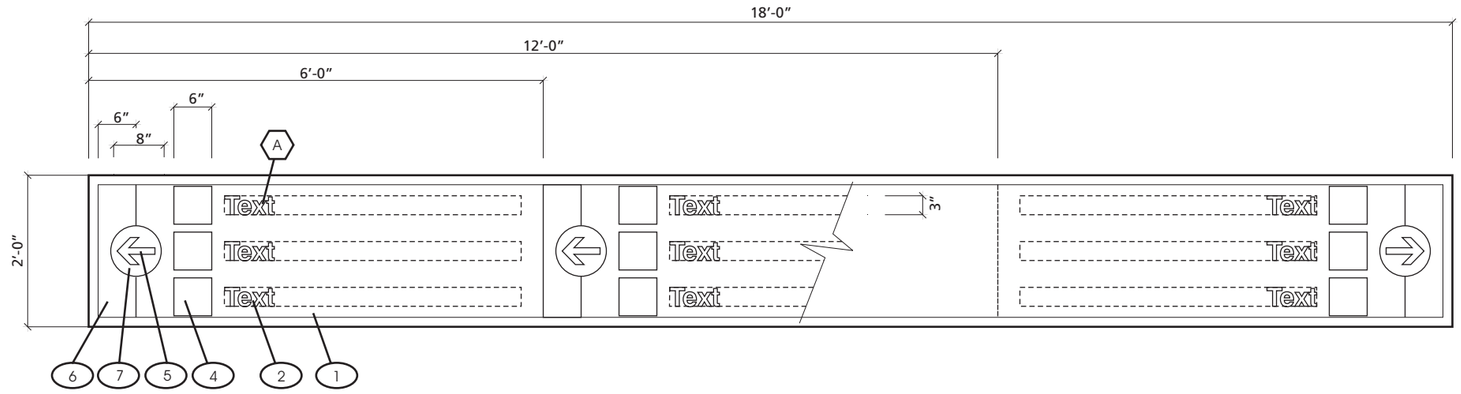
- Description: Terminal Directory
- Overall Dimensions: 3'-4"L x 4'-8"H x 7"D Base Dimensions: 3'-4"L x 1'-4"H x 7 1/16"D
- Used in primary circulation corridors parallel to main pedestrian traffic flow.
- Illuminated
- 2.25" Cap Ht
- 3" Symbol Ht
- NOTE: Directory frame may be used for different types of directories such as Terminal Directories, Airport Directories, etc. Interior artwork to be provided by Massport.

Wall Mount ST - 184



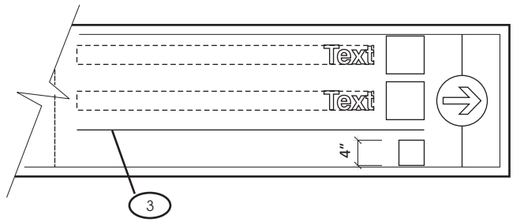
- Description: Information Directory
- Overall Dimensions: 2'-4"L x 3'-4"H x 3"D
- Used at information booths
- Non-Illuminated
- 1" Cap Ht and 3/4" Cap Ht
- 4" Symbol Ht

#	Revision	Date



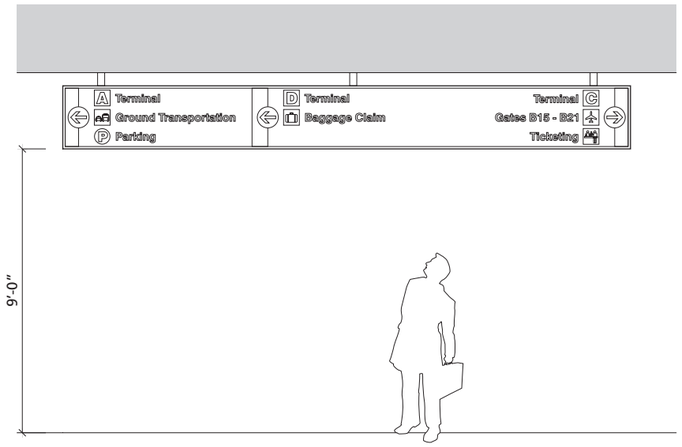
SIGN FACE LAYOUT - OPTION A

Scale: 1/2"=1'-0"



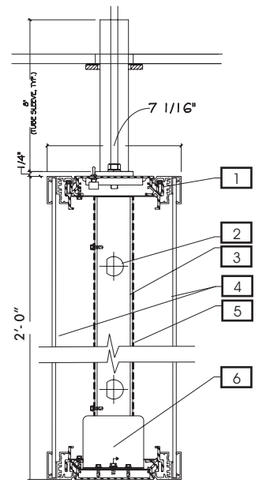
SIGN FACE LAYOUT - OPTION B

Scale: 1/2"=1'-0"



ELEVATION - OPTION A

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead - Directional ST - 101

DESCRIPTION: Overhead suspended -3 direction/ 3 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: Translucent Acrylic (White)
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

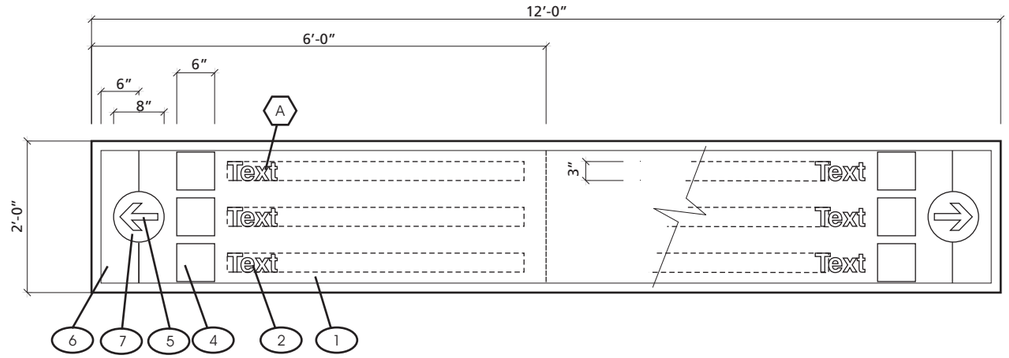
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR

Directional Signs - Primary 3.5.1

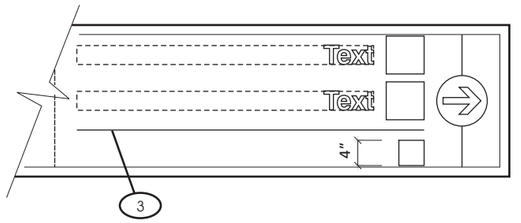
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



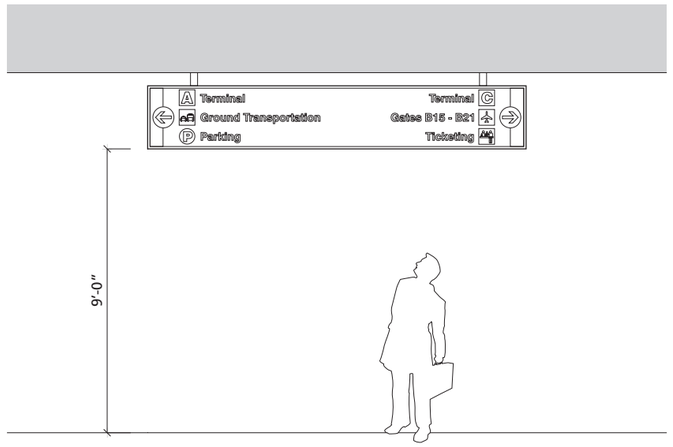
SIGN FACE LAYOUT - OPTION A

Scale: 1/2"=1'-0"



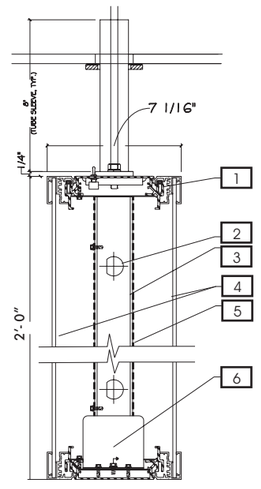
SIGN FACE LAYOUT - OPTION B

Scale: 1/2"=1'-0"



ELEVATION - OPTION A

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead - Directional ST - 102

DESCRIPTION: Overhead suspended -2 direction/ 3 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

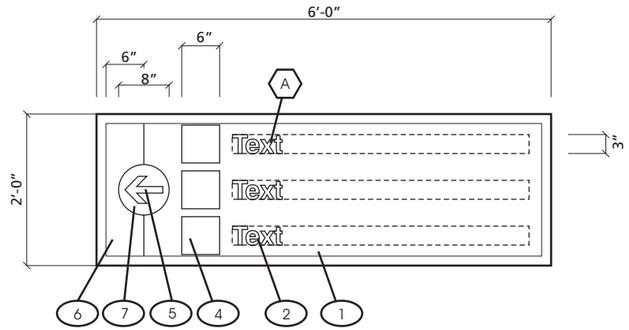
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR

Directional Signs - Primary 3.5.1

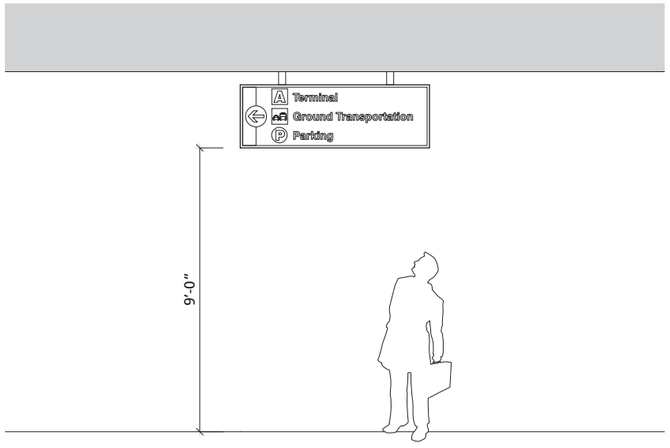
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



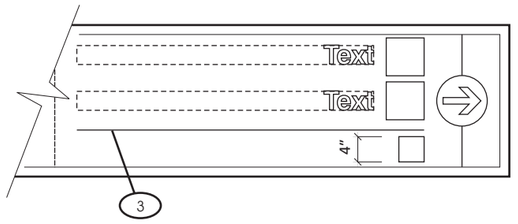
SIGN FACE LAYOUT - OPTION A

Scale: 1/2"=1'-0"



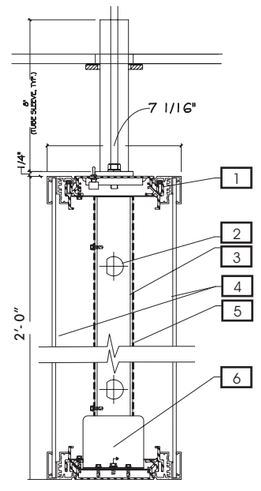
ELEVATION - OPTION A

Scale: N.T.S.



SIGN FACE LAYOUT - OPTION B

Scale: 1/2"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead - Directional ST - 103

DESCRIPTION: Overhead suspended -1 direction/ 3 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

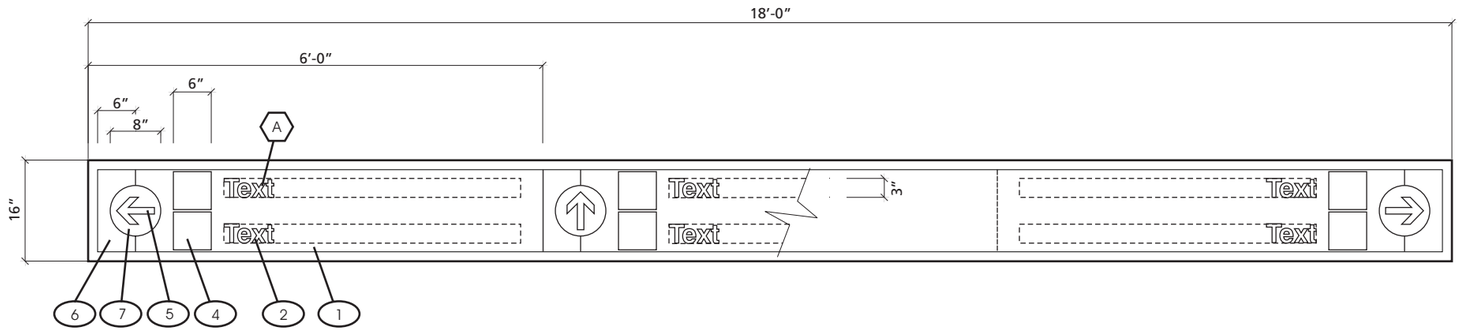
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR

Directional Signs - Primary 3.5.1

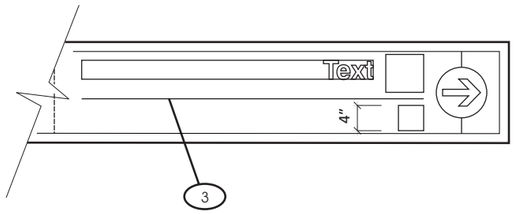
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



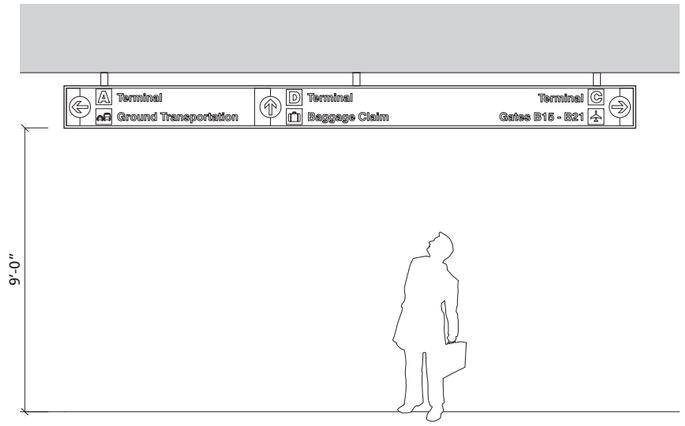
SIGN FACE LAYOUT - OPTION A

Scale: 1/2"=1'-0"



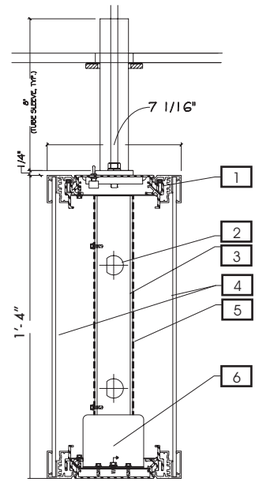
SIGN FACE LAYOUT - OPTION B

Scale: 1/2"=1'-0"



ELEVATION - OPTION A

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead - Directional ST - 104

DESCRIPTION: Overhead suspended -3 direction/ 2 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

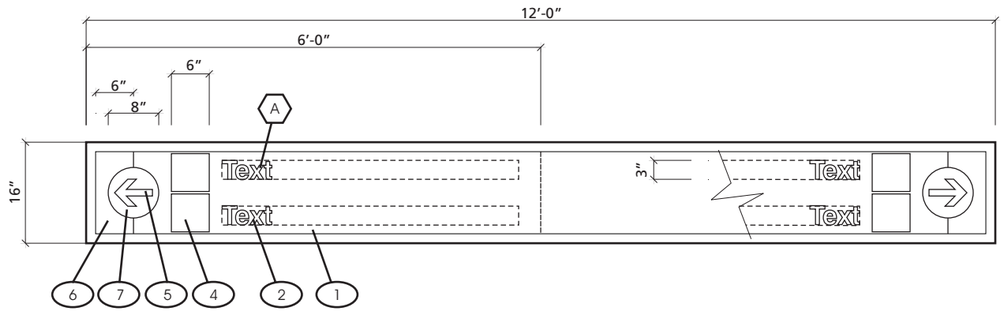
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces MTD w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR

Directional Signs - Primary 3.5.1

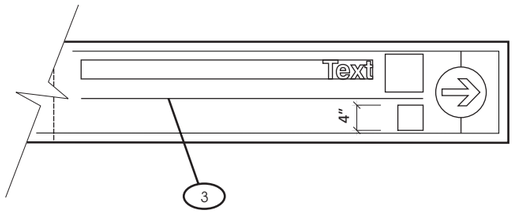
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



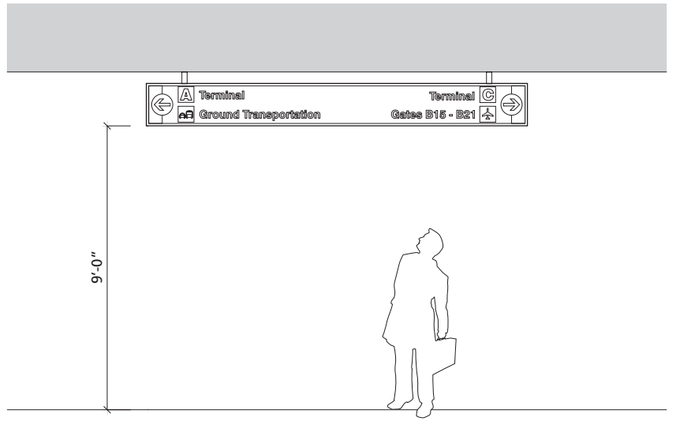
SIGN FACE LAYOUT - OPTION A

Scale: 1/2"=1'-0"



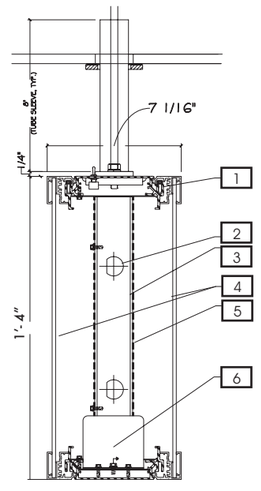
SIGN FACE LAYOUT - OPTION B

Scale: 1/2"=1'-0"



ELEVATION - OPTION A

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead - Directional ST - 105

DESCRIPTION: Overhead suspended -2 direction/ 2 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: Translucent Acrylic (White)
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

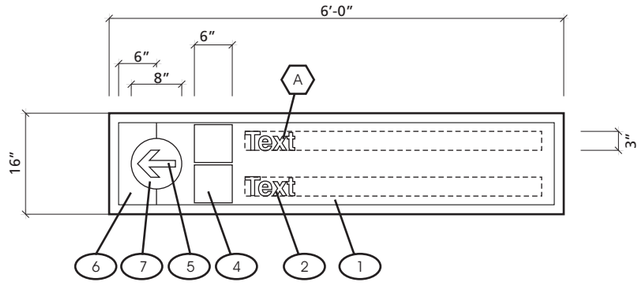
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces MTD w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR

Directional Signs - Primary 3.5.1

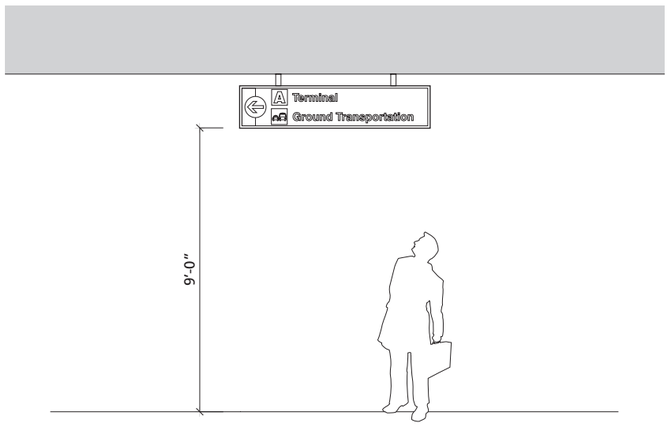
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



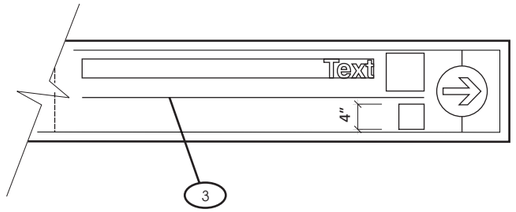
SIGN FACE LAYOUT - OPTION A

Scale: 1/2"=1'-0"



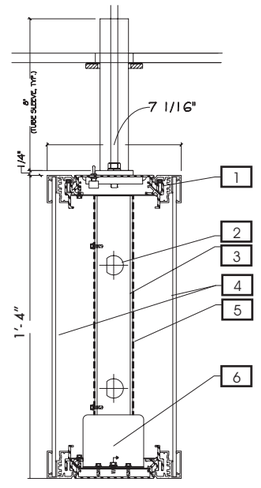
ELEVATION - OPTION A

Scale: N.T.S.



SIGN FACE LAYOUT - OPTION B

Scale: 1/2"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead - Directional ST - 106

DESCRIPTION: Overhead suspended -1 direction/ 2 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: Translucent Acrylic (White)
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

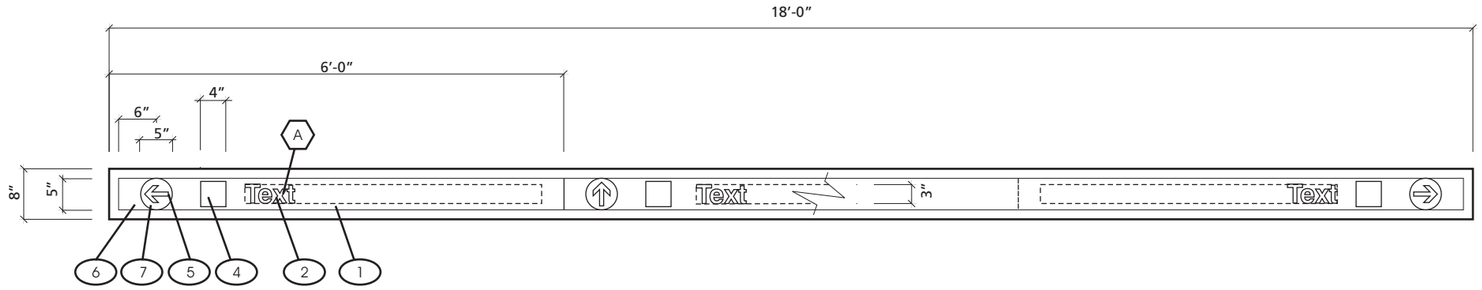
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR

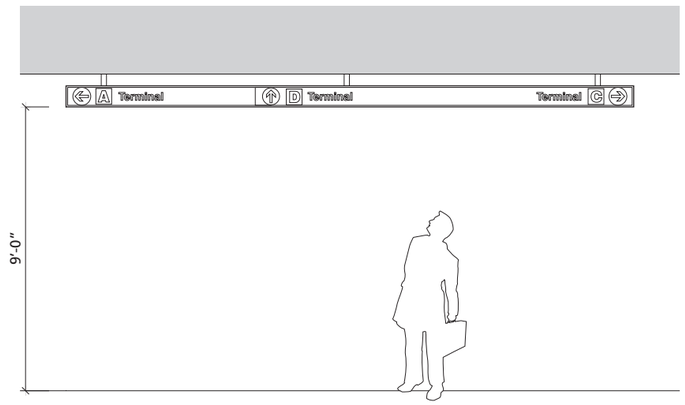
Directional Signs - Primary 3.5.1

3.0 SIGN TYPES - TERMINALS

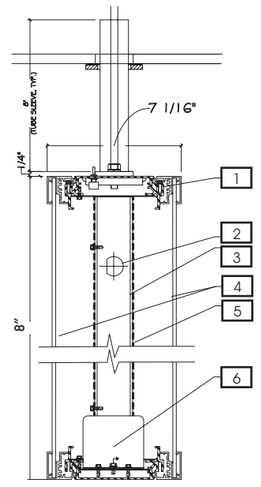
#	Revision	Date



SIGN FACE LAYOUT
Scale: 1/2"=1'-0"



ELEVATION
Scale: N.T.S.



DETAIL (For Design Intent Only)
Scale: N.T.S

Overhead - Directional ST - 107

DESCRIPTION: Overhead suspended -3 direction/ 1 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

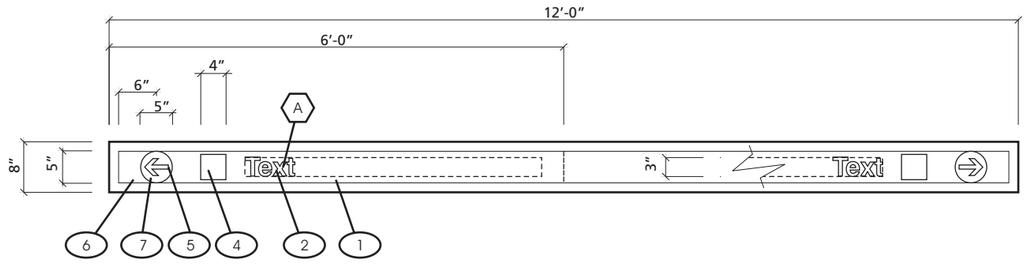
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR

Directional Signs - Primary 3.5.1

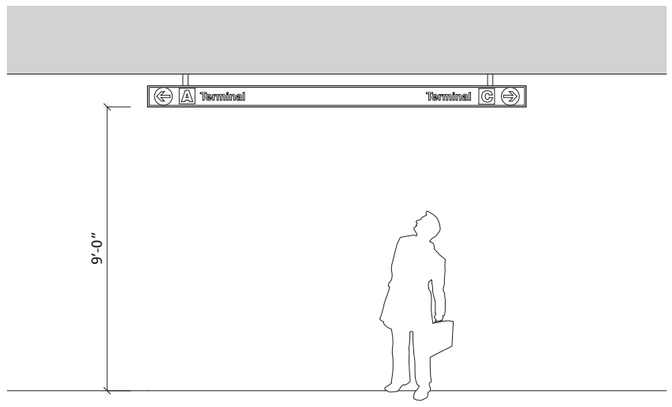
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



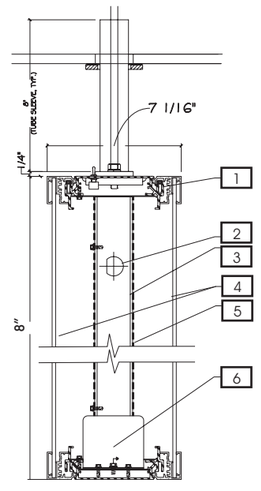
SIGN FACE LAYOUT

Scale: 1/2"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead - Directional ST - 108

DESCRIPTION: Overhead suspended -2 direction/ 1 level of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

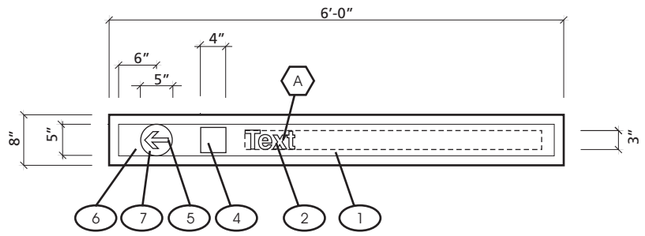
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR

Directional Signs - Primary 3.5.1

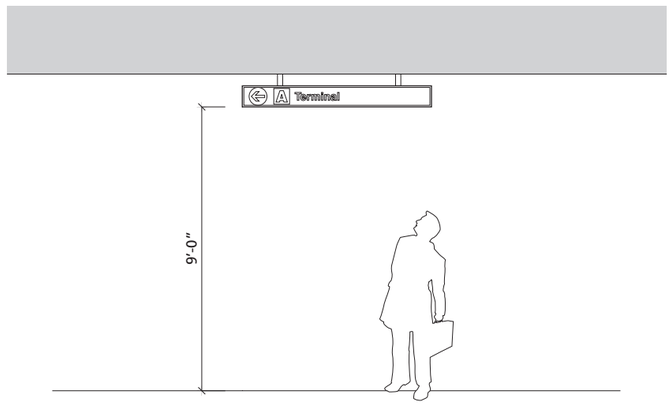
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



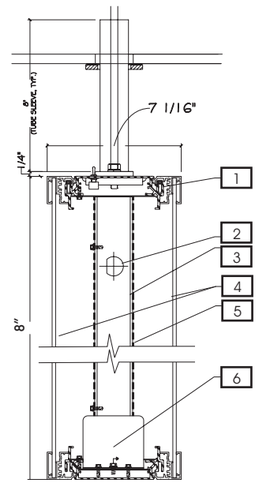
SIGN FACE LAYOUT

Scale: 1/2"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead - Directional ST - 109

DESCRIPTION: Overhead suspended -1 direction/ 1 level of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: Translucent Acrylic (White)
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

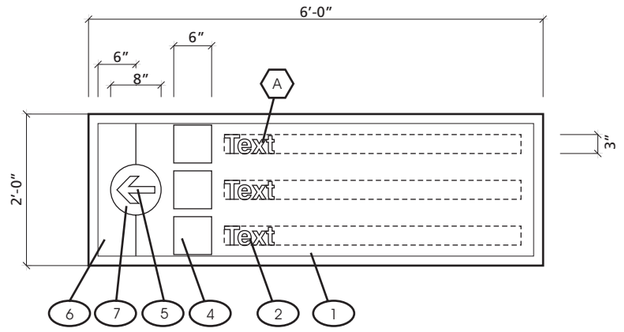
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR

Directional Signs - Primary 3.5.1

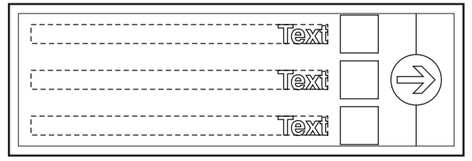
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



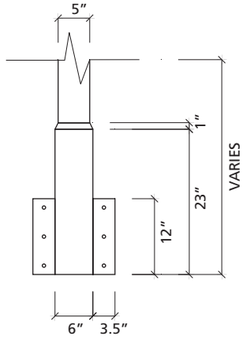
SIGN FACE LAYOUT - SIDE A

Scale: 1/2"=1'-0"



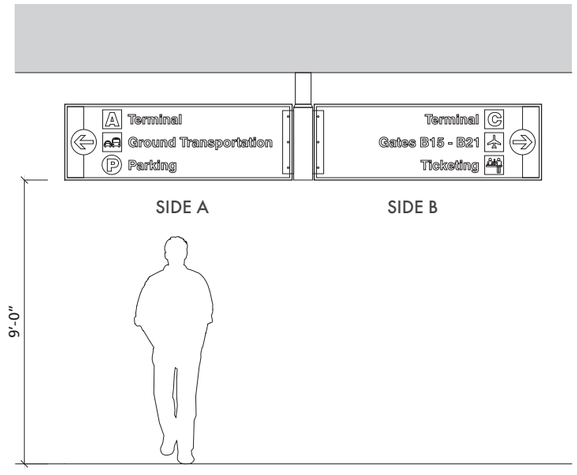
SIGN FACE LAYOUT - SIDE B

Scale: 1/2"=1'-0"



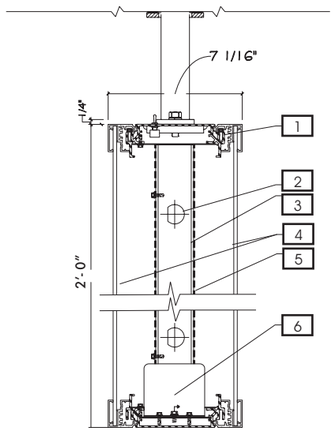
POLE

Scale: 1/2"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead - Directional ST - 110

DESCRIPTION: Overhead suspended with pole - 2 direction/ 3 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: N/A
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended with pole.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

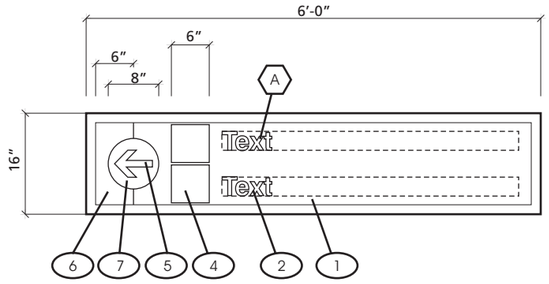
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR

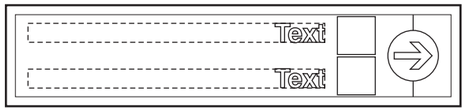
Directional Signs - Primary 3.5.1

#	Revision	Date



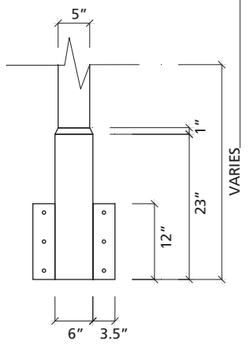
SIGN FACE LAYOUT - SIDE A

Scale: 1/2"=1'-0"



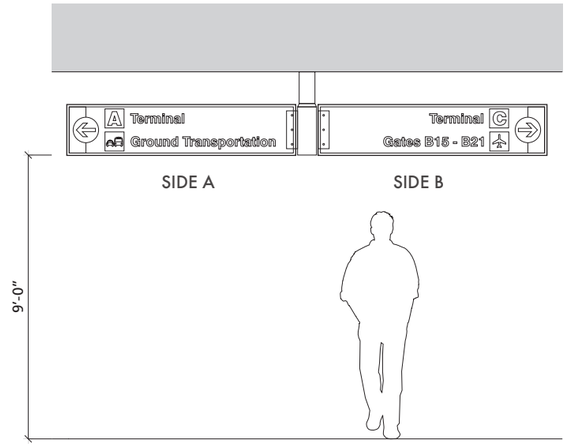
SIGN FACE LAYOUT - SIDE B

Scale: 1/2"=1'-0"



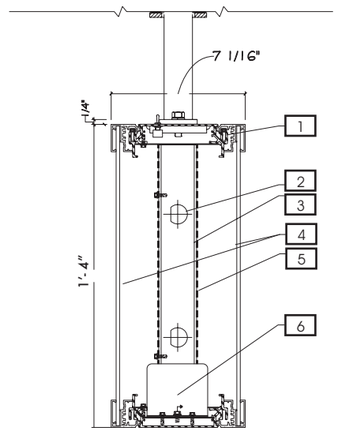
POLE

Scale: 1/2"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead - Directional ST - 111

DESCRIPTION: Overhead suspended with pole - 2 direction/ 2 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: N/A
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended with pole.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

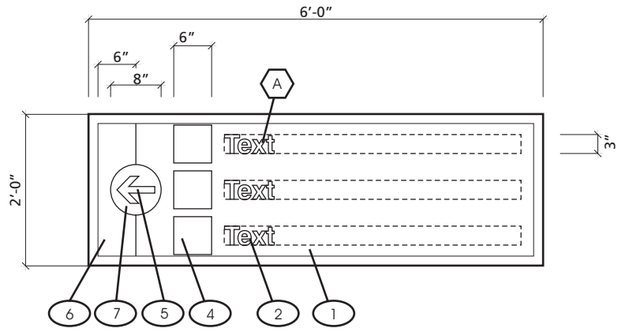
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
6. Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8" Ballast France 688 DR

Directional Signs - Primary 3.5.1

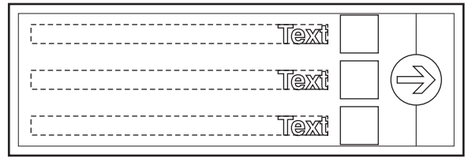
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



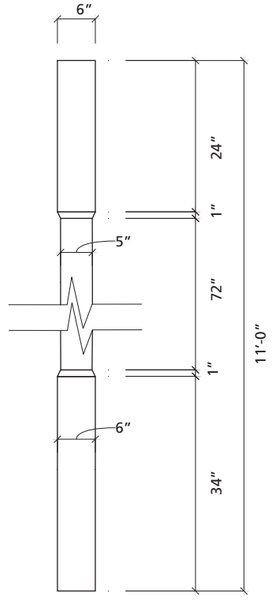
SIGN FACE LAYOUT - SIDE A

Scale: 1/2"=1'-0"



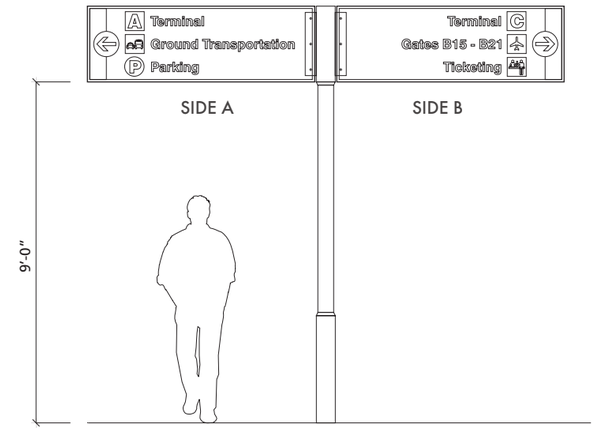
SIGN FACE LAYOUT - SIDE B

Scale: 1/2"=1'-0"



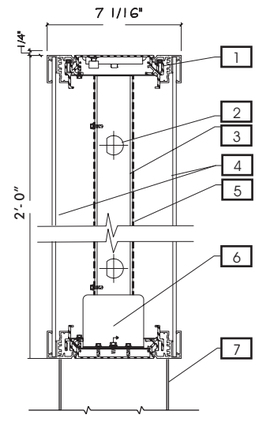
POLE

Scale: 1/2"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S

Post Mount - Directional ST - 112

DESCRIPTION: Post mount -2 direction/ 3 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: N/A
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Post mount.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

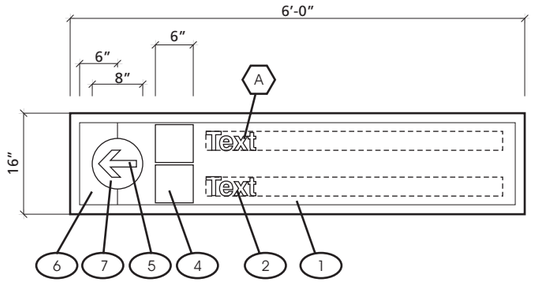
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR
7. Aluminum arm support 6" Dia. At connecting Point.

Directional Signs - Primary 3.5.1

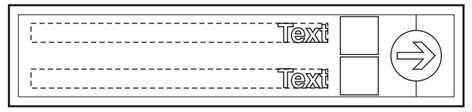
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



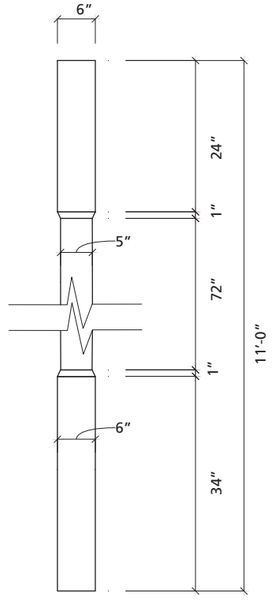
SIGN FACE LAYOUT - SIDE A

Scale: 1/2"=1'-0"



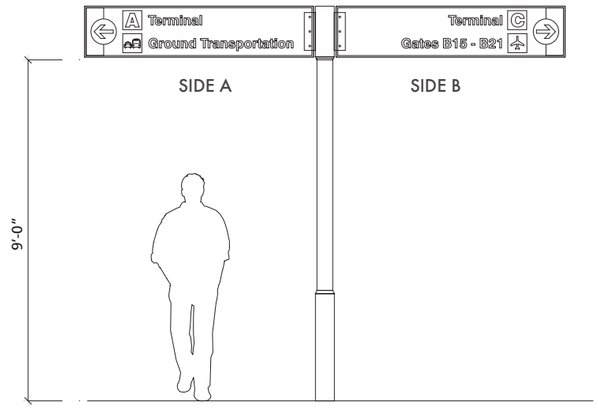
SIGN FACE LAYOUT - SIDE B

Scale: 1/2"=1'-0"



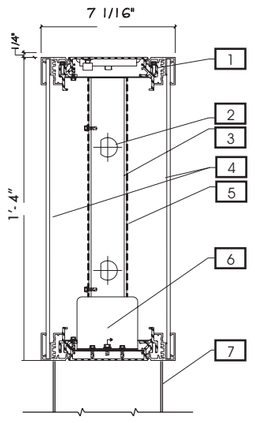
POLE

Scale: 1/2"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S

Post Mount - Directional ST - 113

DESCRIPTION: Post mount -2 direction / 2 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: N/A
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Post mount.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

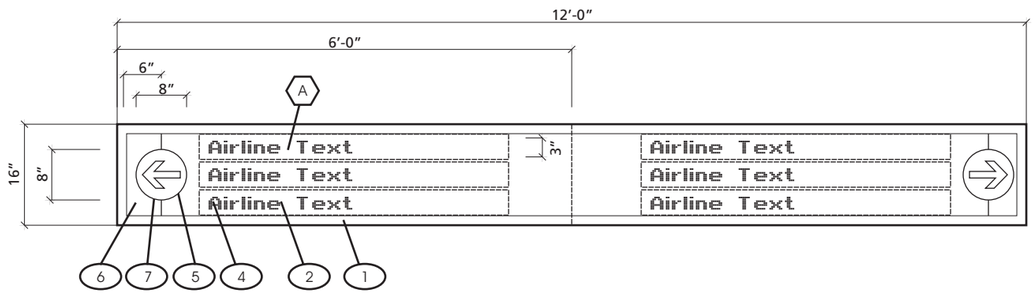
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR
7. Aluminum arm support 6" Dia. At connecting Point.

Directional Signs - Primary 3.5.1

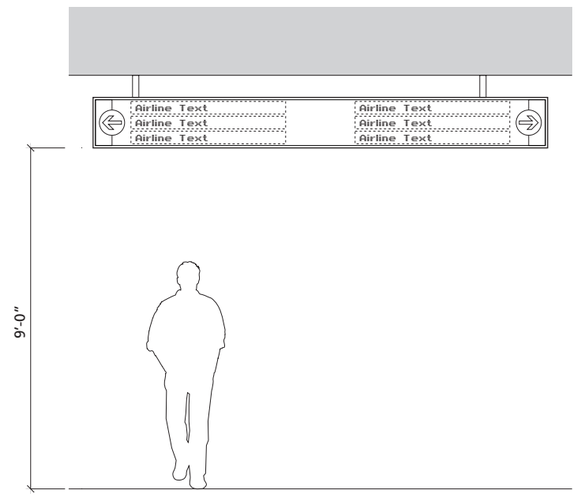
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



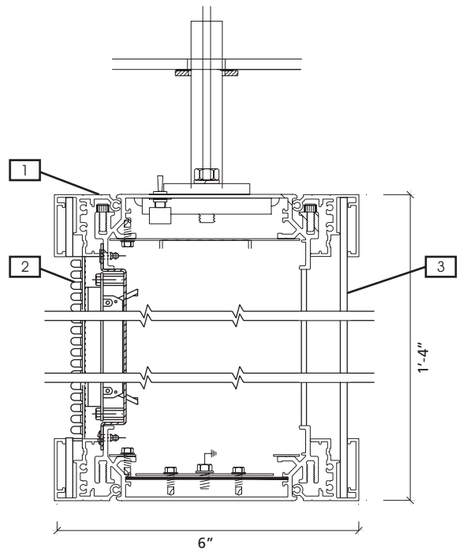
SIGN FACE LAYOUT - OPTION A

Scale: 1/2"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: 3"=1'-0"

Overhead - Directional ST - 121

DESCRIPTION: Overhead suspended airline listing (Dynamic) - 2 direction / 3 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow at Terminal entrances

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A N/A
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: VMS Red reading
- 3 Band: N/A
- 4 Symbol: N/A
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

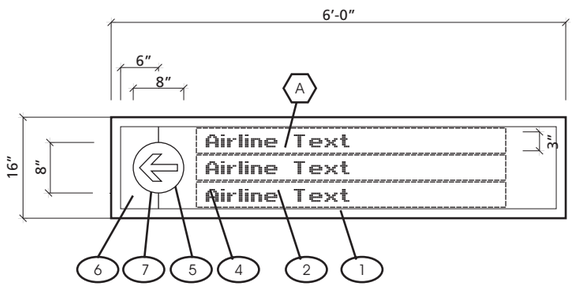
MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

NOTES:

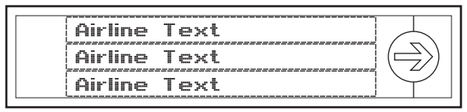
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends Typical
2. LED/VMS Module
3. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT

#	Revision	Date



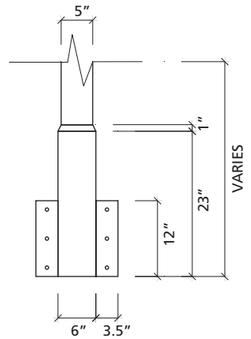
SIGN FACE LAYOUT - SIDE A

Scale: 1/2"=1'-0"



SIGN FACE LAYOUT - SIDE B

Scale: 1/2"=1'-0"



POLE

Scale: 1/2"=1'-0"

Overhead - Directional ST - 122

DESCRIPTION: Overhead suspended airline listing (Dynamic) - 2 direction / 3 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow at Terminal entrances.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:

- A N/A
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: VMS Red reading
- 3 Band: N/A
- 4 Symbol: N/A
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

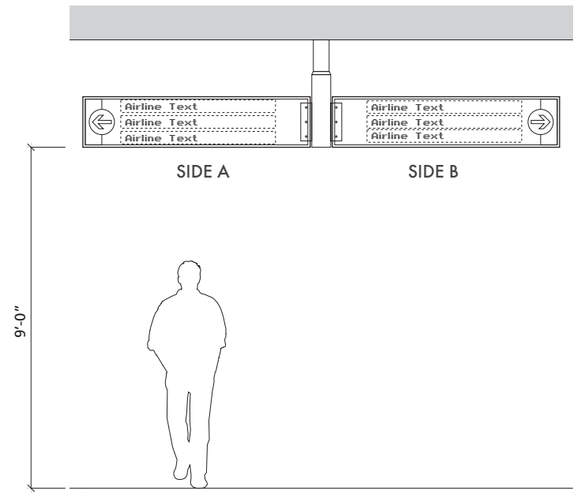
ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

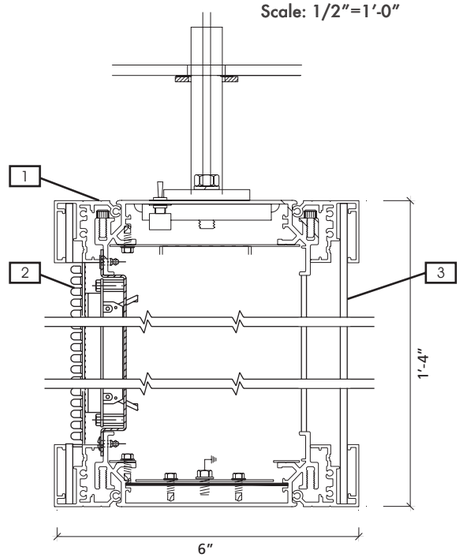
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. LED/VMS Module
3. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT



ELEVATION

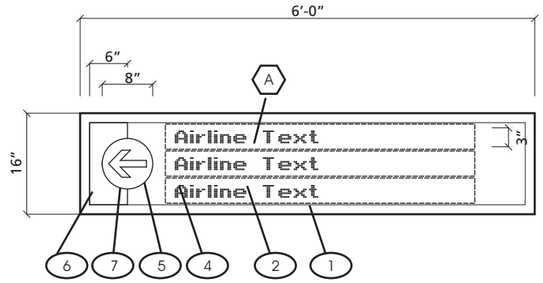
Scale: N.T.S.



DETAIL (For Design Intent Only)

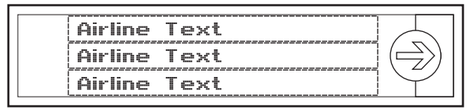
Scale: 3"=1'-0"

#	Revision	Date



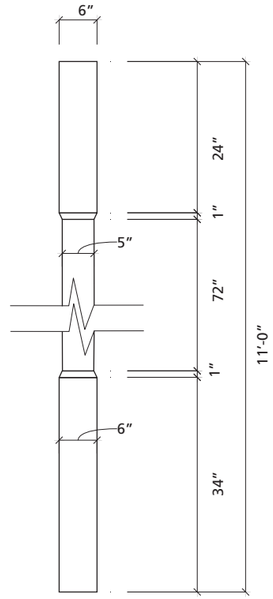
SIGN FACE LAYOUT - SIDE A

Scale: 1/2"=1'-0"



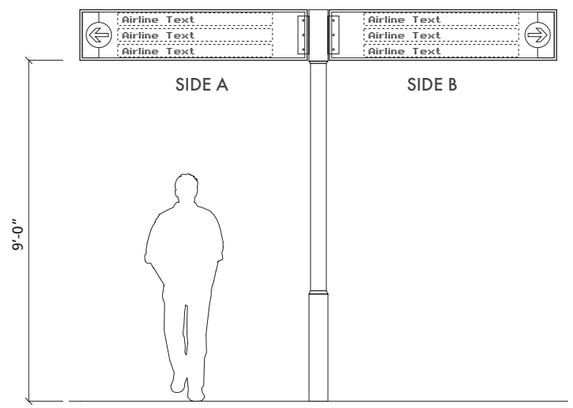
SIGN FACE LAYOUT - SIDE B

Scale: 1/2"=1'-0"



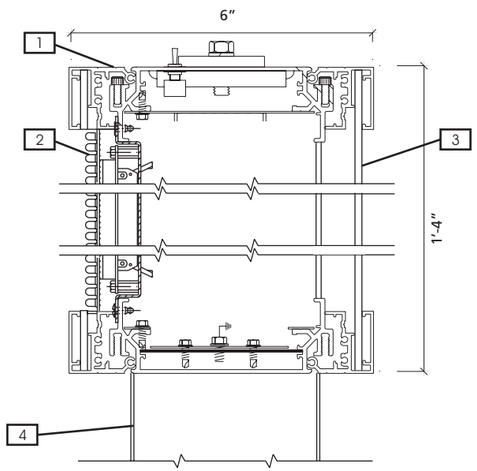
POLE

Scale: 1/2"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: 3"=1'-0"

Post Mount - Directional ST - 123

DESCRIPTION: Post mount airline listing (Dynamic) - 2 direction / 3 levels of messaging.

LOCATION: Terminals. Primary circulation corridors perpendicular to the main pedestrian traffic flow at I Terminal entrances.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A N/A
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: VMS Red reading
- 3 Band: N/A
- 4 Symbol: N/A
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Post mount.

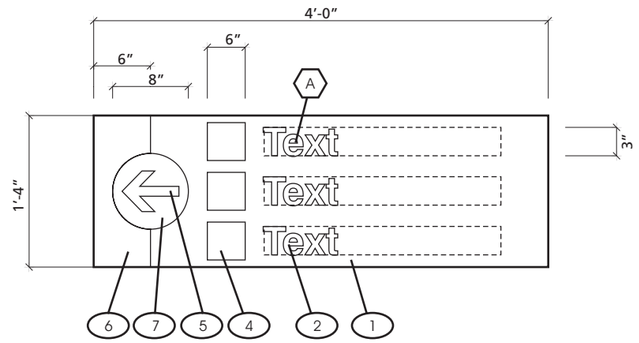
ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

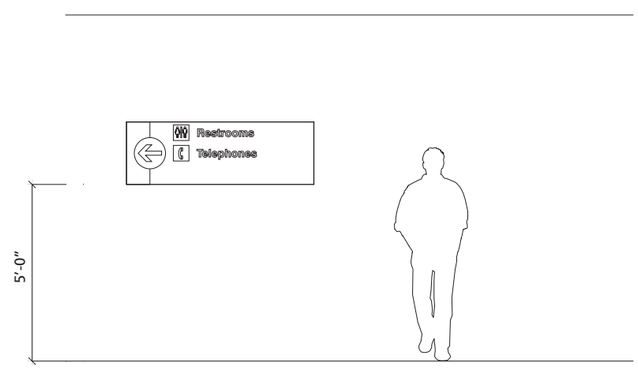
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends Typical
2. LED/VMS Module
3. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
4. 2 ½"Dia. X .125" wall aluminum tube

#	Revision	Date



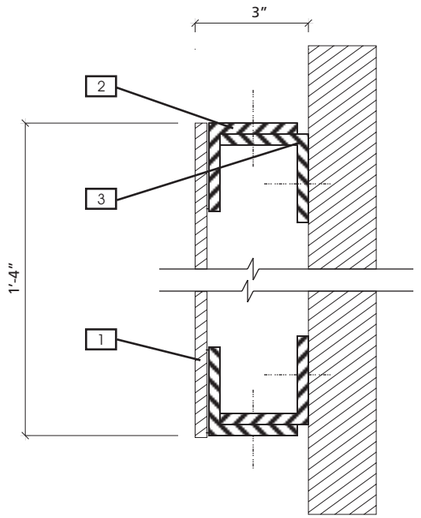
SIGN FACE LAYOUT - OPTION A

Scale: 3/4"=1'-0"



ELEVATION - OPTION A

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: 3"=1'-0"

Wall Mount - Directional ST - 124

DESCRIPTION: Wall mount - 1 direction / 3 levels of messaging.

LOCATION: Terminals. Secondary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: N/A
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

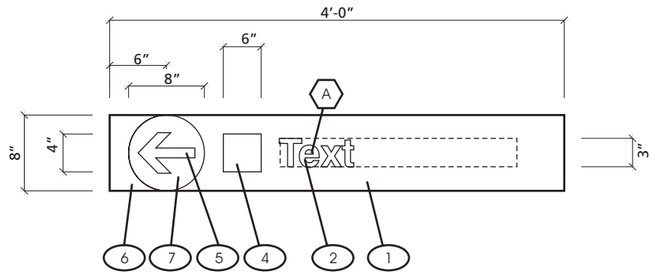
ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Wall mount.

ILLUMINATION: Sign will be non illuminated.

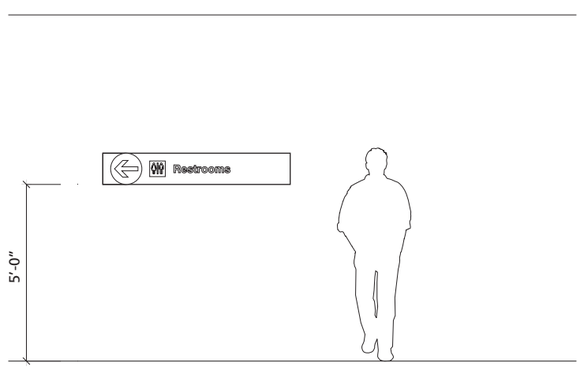
NOTES:
1. .125" aluminum panel secured to angle frame.
2. 1"x1"x.125" aluminum angle frame.
3. 1"x1"x.125" aluminum mounting bracket.

#	Revision	Date



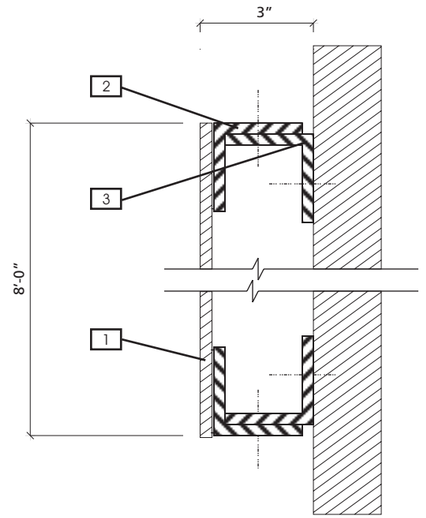
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: 3"=1'-0"

Wall Mount - Directional ST - 125

DESCRIPTION: Wall mount -1 direction/ 1 level of messaging.

LOCATION: Terminals. Secondary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: N/A
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

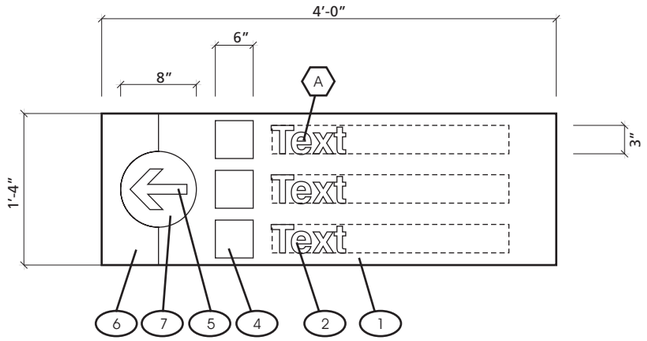
ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Wall mount.

ILLUMINATION: Sign will be non illuminated.

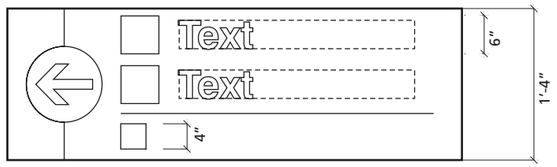
NOTES:
1. .125" aluminum panel secured to angle frame.
2. 1"x1"x.125" aluminum angle frame.
3. 1"x1"x.125" aluminum mounting bracket.

#	Revision	Date



SIGN FACE LAYOUT - OPTION A

Scale: 3/4"=1'-0"



SIGN FACE LAYOUT - OPTION B

Scale: 3/4"=1'-0"

Flag Mount - Directional ST - 126

DESCRIPTION: Flag mount -1 direction/ 3 levels of messaging.

LOCATION: Terminals. Secondary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:

- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: N/A
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

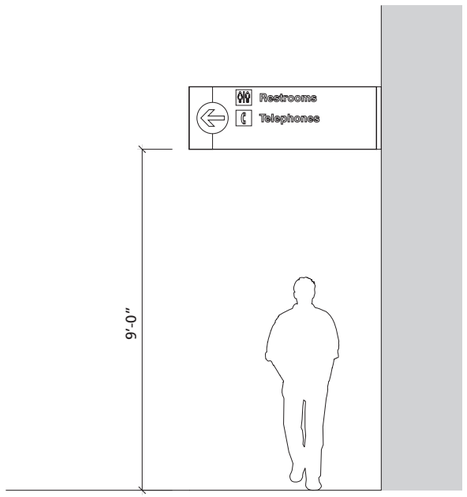
ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Flag Mount.

ILLUMINATION: Sign will be non illuminated.

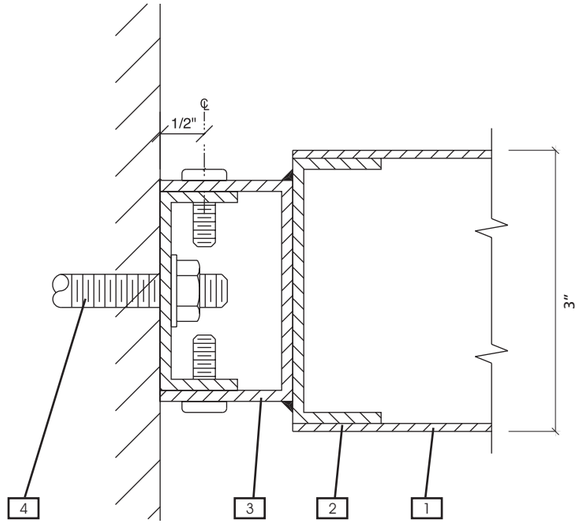
NOTES:

1. .090" Aluminum face.
2. 3"x1"x.125" Aluminum channel frame with mitered and welded corners.
3. 2 1/2"x1 1/2"x.125" Aluminum channel with capped ends - weld to channel frame.
4. 3/8" Dia. Mounting stud. (by others).



ELEVATION - OPTION A

Scale: N.T.S.



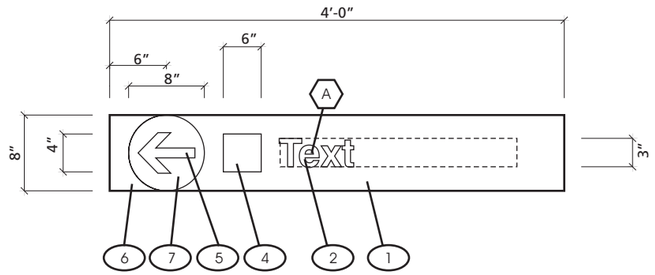
DETAIL (For Design Intent Only)

Scale: N.T.S.

3.0 SIGN TYPES - TERMINALS

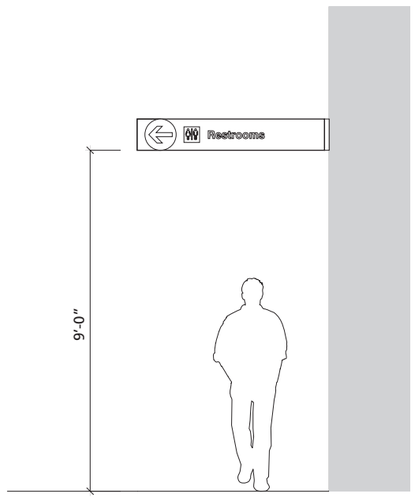
Directional Signs - Secondary 3.5.1

#	Revision	Date



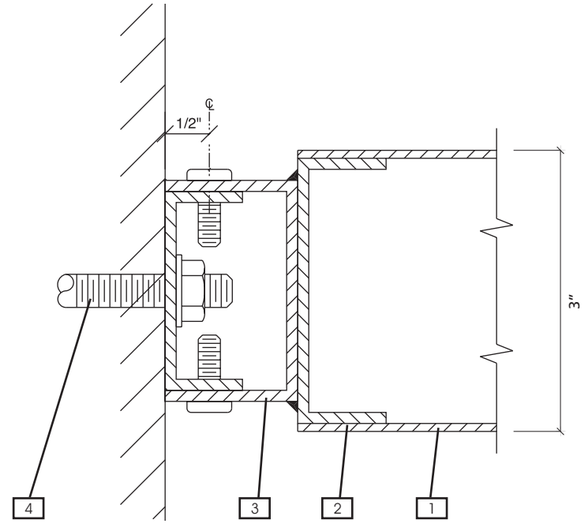
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S.

Flag Mount - Directional ST - 127

DESCRIPTION: Flag mount -1 direction /1 levels of messaging.

LOCATION: Terminals. Secondary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- (A) Swiss721 BT Bold
- (B) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: Translucent Acrylic (White)
- (3) Band: N/A
- (4) Symbol: Translucent Acrylic (White)
- (5) Arrow: Translucent Acrylic (White)
- (6) Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (7) Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

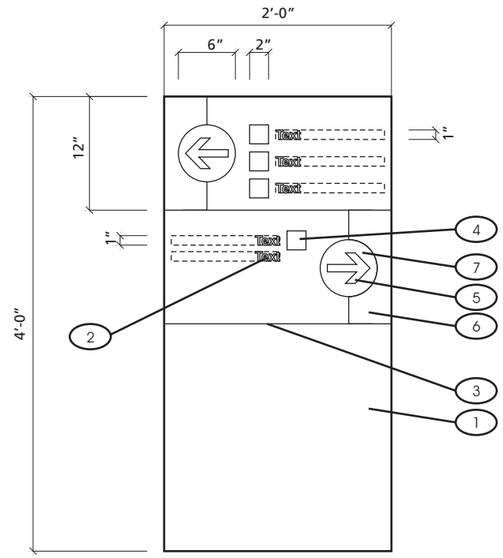
ARROWS: 6"x4.25" (Refer to Section 2.4.1)

MOUNTING: Flag mount.

ILLUMINATION: Sign will be non illuminated.

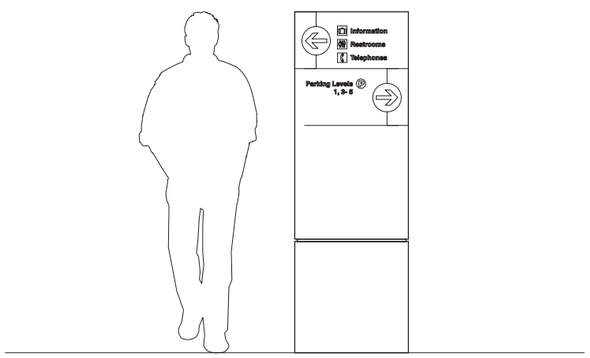
NOTES:
1. .090" Aluminum face.
2. 3"x1"x.125" Aluminum channel frame with mitered and welded corners.
3. 2 1/2"x1 1/2"x.125" Aluminum channel with capped ends - weld to channel frame.
4. 3/8" Dia. Mounting stud. (by others).

#	Revision	Date



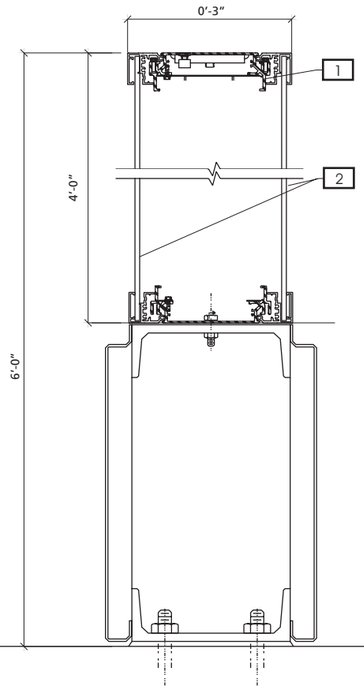
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S.

Floor Mount - Directional ST - 128

DESCRIPTION: Floor mount -2 direction/ up to 6 levels of messaging.

LOCATION: Terminals. Secondary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-10 or approved equal (Black)
- 2 Text: 3M Opaque Film # 220-10 (White)
- 3 Band: 3M Opaque Film # 220-10 (White)
- 4 Symbol: 3M Opaque File # 220-10 (White)
- 5 Arrow: 3M Opaque Film # 220-10 (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Grey) #7725-41

GRAPHICS: N/A

ARROWS: 4.5"x3.25" (Refer to Section 2.4.1)

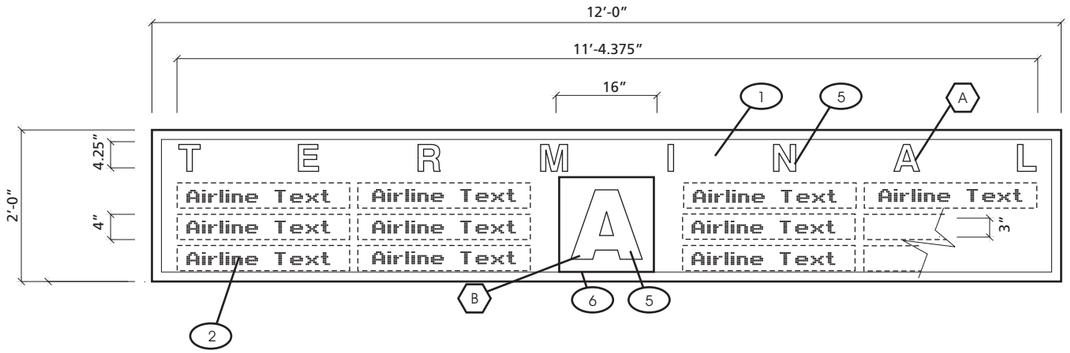
MOUNTING: Floor mount.

ILLUMINATION: Sign will be non-illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

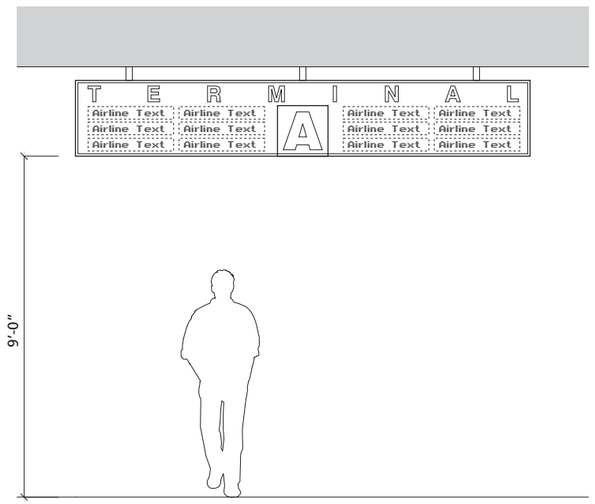
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT

#	Revision	Date



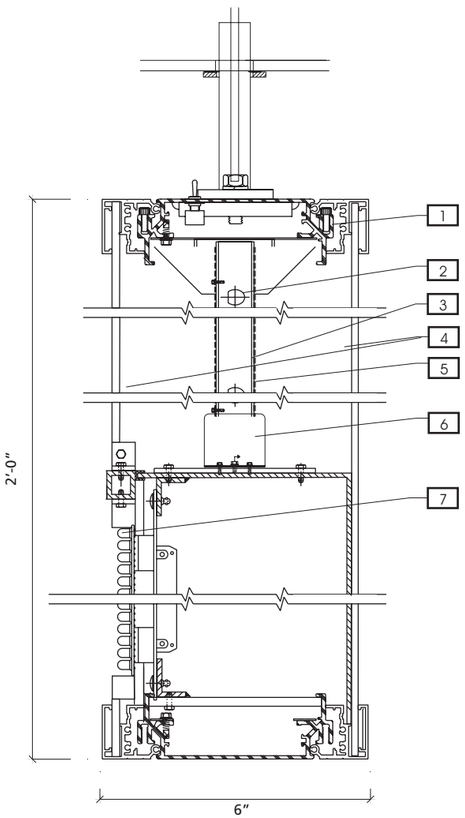
SIGN FACE LAYOUT

Scale: 1/2"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S.

Overhead - Identification ST - 151

DESCRIPTION: Overhead suspended - Terminal with I.D with dynamic airline listing.

LOCATION: Terminals. Used at primary Terminal entrances

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: VMS Red reading
- 3 Band: N/A
- 4 Symbol: N/A
- 5 Letter: .090" fabricated aluminum dimensional letter painted MPA #42-202 Natural White.
- 6 Letter box:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Header/Side Panel: N/A
- 8 Header Text: Translucent Acrylic (White)

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.

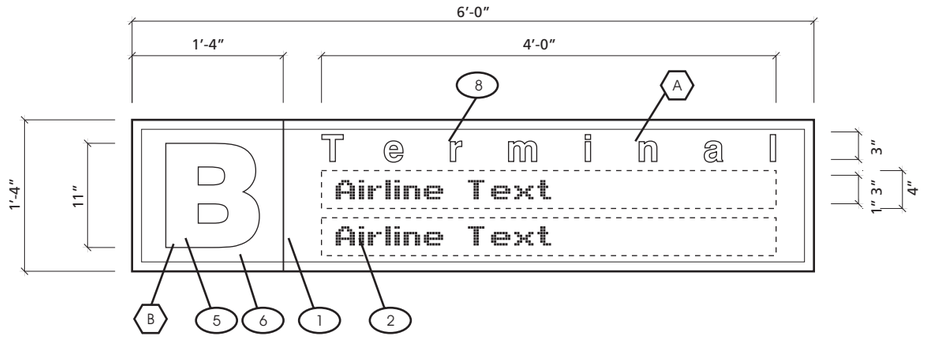
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR
7. LED/VMS Module

Identification - Primary 3.5.2

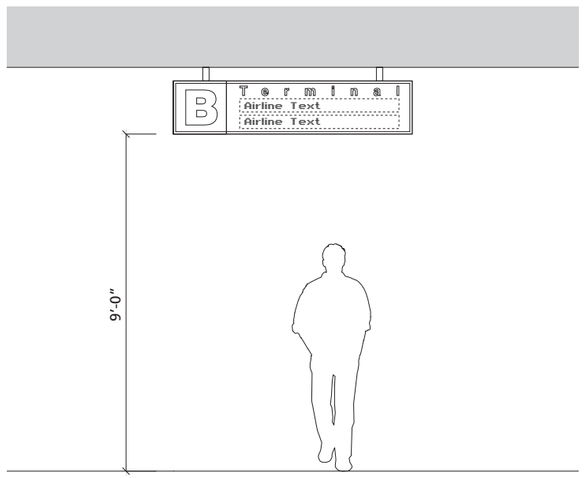
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



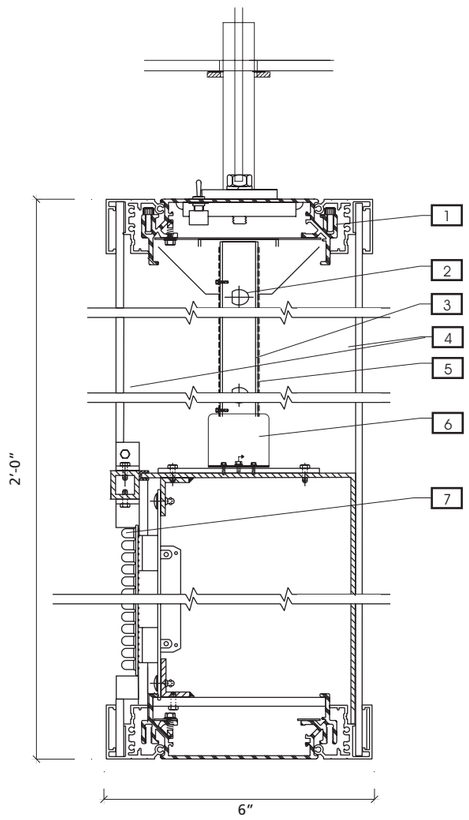
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S.

Overhead - Identification ST - 152

DESCRIPTION: Overhead suspended - Termianl I.D with dynamic airline listing.

LOCATION: Terminals. Used at Terminal entrances.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- (A) Swiss721 BT Bold
- (B) Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 22.2)

COLORS:
- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: VMS Red reading
- (3) Band: N/A
- (4) Symbol: N/A
- (5) Letter: .090" fabricated aluminum dimensional letter painted MPA #42-202 Natural White.
- (6) Letter box:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (7) Header/Side Panel: N/A
- (8) Header Text: Translucent Acrylic (White)

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

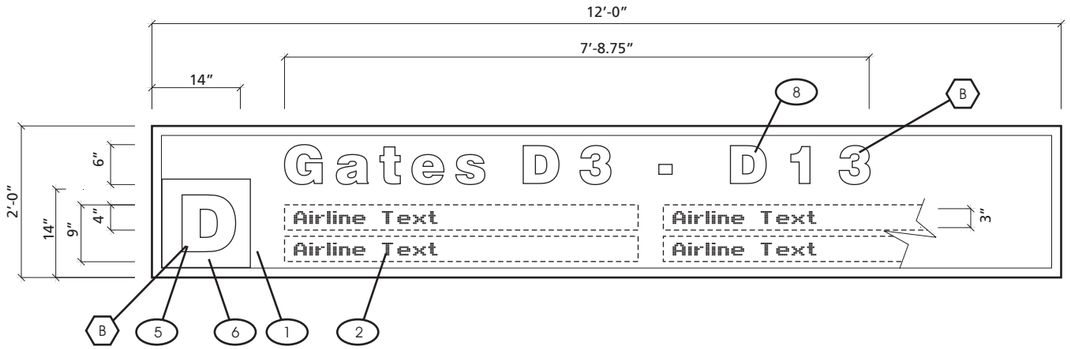
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR
7. LED/VMS Module

Identification - Primary 3.5.2

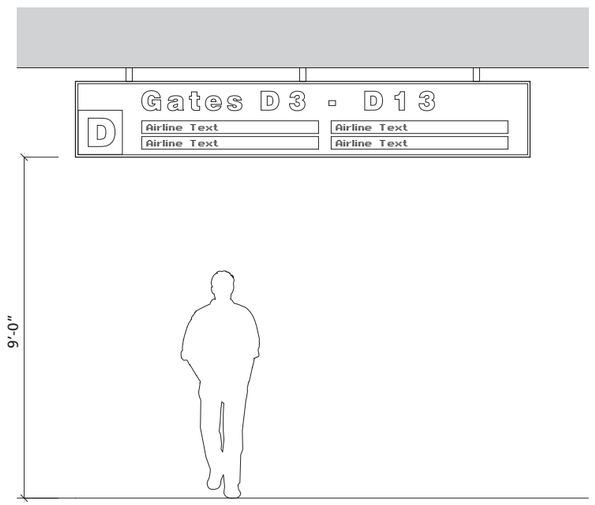
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



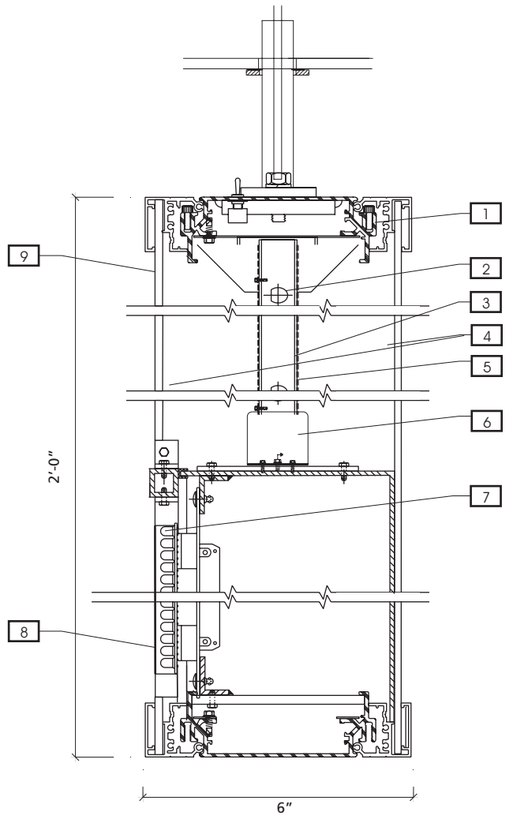
SIGN FACE LAYOUT

Scale: 1/2"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S.

Overhead - Identification ST - 153

DESCRIPTION: Overhead suspended - Gate I.D with dynamic airline listing.

LOCATION: Terminals. Used at primary gate area entrances prior to security check points.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A N/A
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: VMS Red reading
- 3 Band: N/A
- 4 Symbol: N/A
- 5 Letter: .090" fabricated aluminum dimensional letter painted MPA #42-202 Natural White.
- 6 Letter box:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Header/Side Panel: N/A
- 8 Header Text: Translucent Acrylic (White) 3/4" push-thru letter.

GRAPHICS: N/A

MOUNTING: Overhead suspended.
ILLUMINATION: Sign will be internally illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.

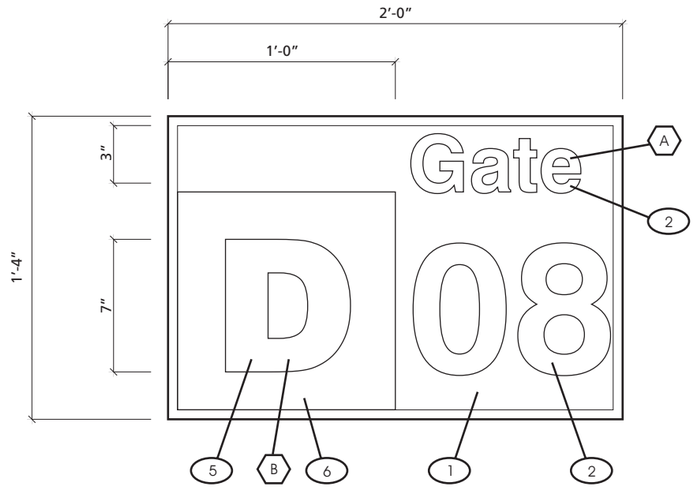
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR
7. LED/VMS Module
8. 1/4" brushed aluminum dimensional letters
9. 1/4" pushed-thru letters

Identification - Primary 3.5.2

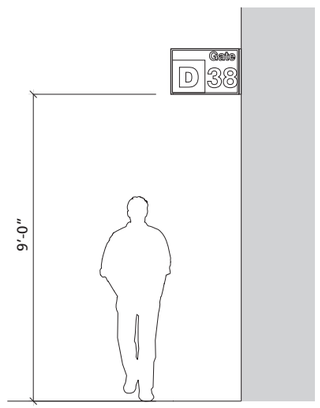
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



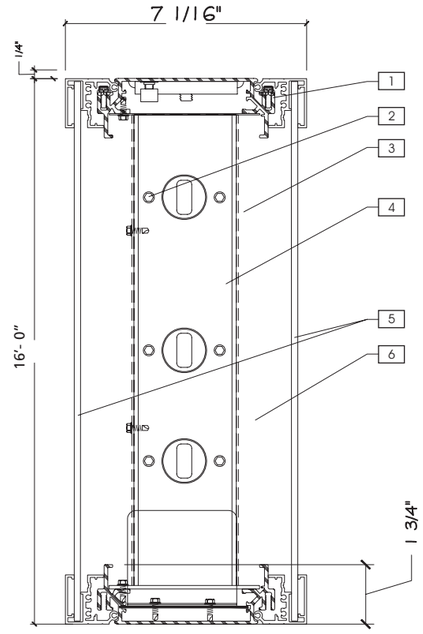
SIGN FACE LAYOUT

Scale: 1 1/2"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S

Flag mount - Identification ST - 154

DESCRIPTION: Flag mount - Gate I.D.

LOCATION: Terminals. Used at gate hold room locations.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- (A) Swiss721 BT Bold
- (B) Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 22.2)

COLORS:
- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: Translucent Acrylic (White)
- (3) Band: N/A
- (4) Symbol: N/A
- (5) Letter: Translucent Acrylic (White)
- (6) Letter box:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (7) Header/Side Panel: N/A
- (8) Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Flag mount.

ILLUMINATION: Sign will be internally illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

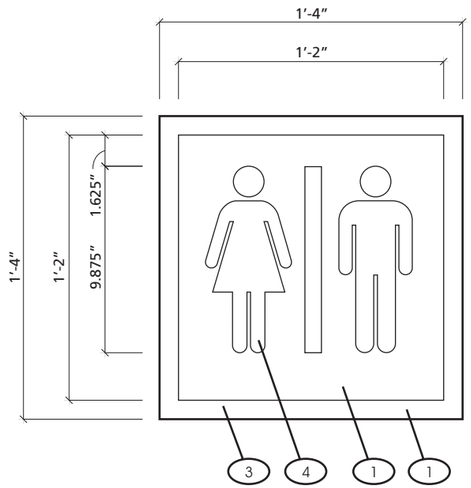
1. # 10-24 X ½"SS SCS hinged screw drill by 5/16" dia. Use reference scoring 8" from ends typical
2. # 08 X ½"SS TEX DP SMS raceway cover fastener.
3. Compact Fluorescent lamp sign lite BLM- 13-1-6
4. 3" X 2" X 1/8" alum channel raceway, socket support welded to base plate MTD to frame w/ # 8 X ½"SS TER DP SMS
5. 3/16" signwhite polycarb faces MTD w/ 3M 4930 VHB FT
6. .040" alum formed raceway cover socket support

Panduit ABM2S-A-C cable tie pad in raceway w/ panduit PLIM-C zip tie 1/8" wide X 3 7/8"

Identification - Secondary 3.5.2

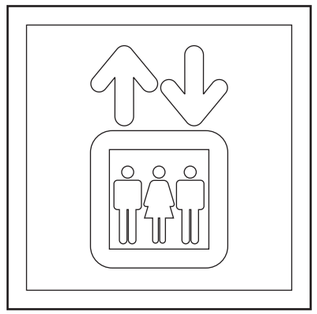
3.0 SIGN TYPES - TERMINALS

#	Revision	Date



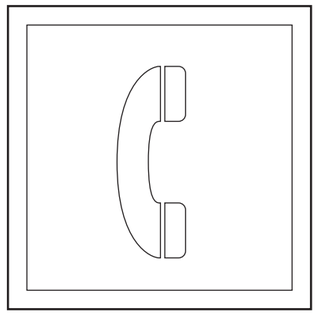
SIGN FACE LAYOUT - OPTION A

Scale: 1 ½"=1'-0"



SIGN FACE LAYOUT - OPTION B

Scale: 1 1/2"=1'-0"



SIGN FACE LAYOUT - OPTION C

Scale: 1 1/2"=1'-0"

Flag mount - Identification ST - 155

DESCRIPTION: Flag mount - Servioces I.D.

LOCATION: Terminals. Used in all Terminal areas.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A N/A
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-10 or approved equal (Black)
2. Text: N/A
3. Band: 3M Opaque Film #220-10 (White)
4. Symbol: 3M Opaque Film #220-10 (White)
5. Letter: N/A
6. Letter box: N/A
7. Header/Side Panel: N/A
8. Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

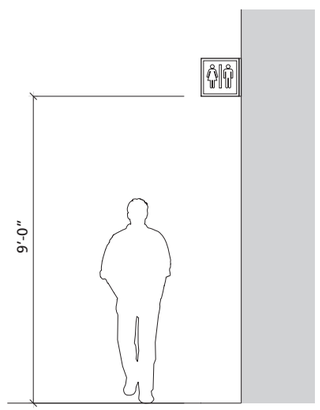
MOUNTING: Flag mount.

ILLUMINATION: Sign will non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

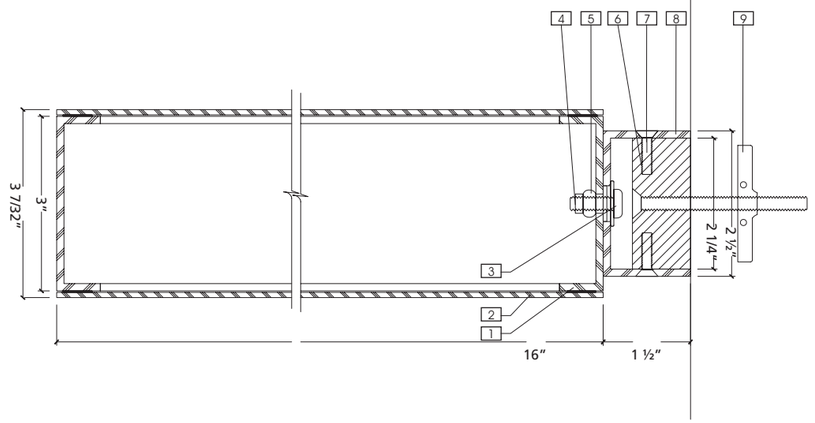
NOTES:

1. 3" X 1 X 1/8" alum channel frame.
2. .090" alum face
3. 1/4 - 20 X 3/4" SS PH CS MC 91772A540 (X3)
4. 1/4" SS flat washer MC 92141A029 (X3)
5. 1/4" - 20 RIVNUT (X3)
6. 2- 1/4" X 1" X 12" PVC
7. 10 -32 X 3/4" SS FH MS tamper resistant
8. 2- ½"X 1-1/2" X 1/8" alum channel
9. 1/4- 20 toggler MC 97802A219



ELEVATION

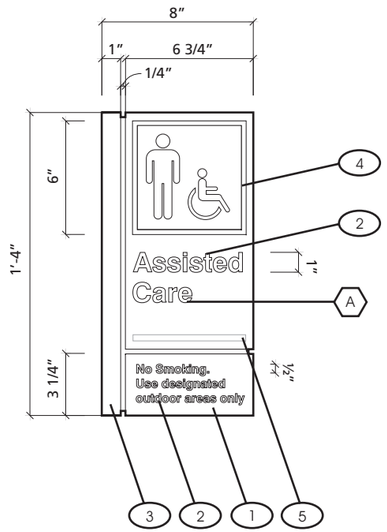
Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S.

#	Revision	Date



SIGN FACE LAYOUT - OPTION A

Scale: 1 ½"=1'-0"

Note: See next page for alternate layouts.

Wall mount - Identification ST - 156

DESCRIPTION: Wall mount - Services I.D. with Braille

LOCATION: Used at location of services and stairs.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss 721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: 3M Opaque Film #220-10 (white)
- 3 Band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 4 Symbol: 3M Opaque Film # 220-10 (White)
- 5 Braille: 1/32" thick raised surface letters (white)
- 6 Letter box: N/A
- 7 Side Panel: N/A
- 8 Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

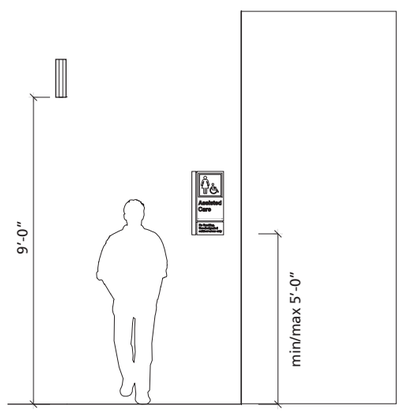
MOUNTING: Wall mount.

ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

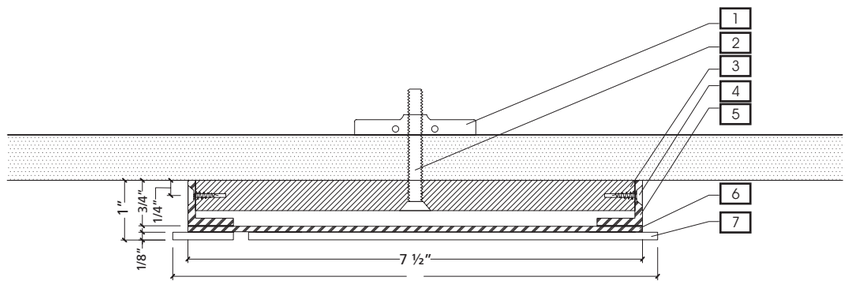
NOTES:

1. 1/4- 20 toggler MC 97802A219 (X2)
2. 1/4- 20 X 2" SS FH MS MC 91771A550 (X2)
3. ½"Saw cut PVC for SMS
4. #8 X ½ SS FH SMS MC 90065A194 (X4)
5. 3/4" X 3/4" X 1/8" alum angle
6. .090 alum face, mounted to alum angle w/ VHB 4930
7. 1/8" acrylic panel w/ bead braill ptd. To match Black mtd. To alum backer panel w/ permastick



ELEVATION

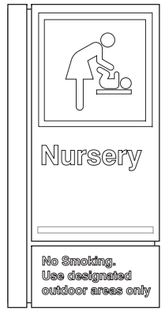
Scale: N.T.S.



DETAIL - Section A (For Design Intent Only)

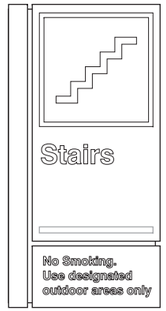
Scale: N.T.S.

#	Revision	Date



SIGN FACE LAYOUT - OPTION D

Scale: 1 ½"=1'-0"



SIGN FACE LAYOUT - OPTION E

Scale: 1 ½"=1'-0"



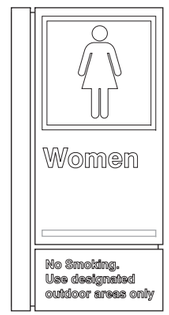
SIGN FACE LAYOUT - OPTION F

Scale: 1 ½"=1'-0"



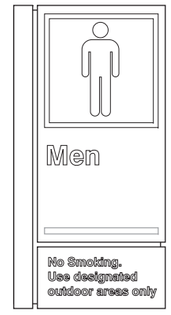
SIGN FACE LAYOUT - OPTION G

Scale: 1 ½"=1'-0"



SIGN FACE LAYOUT - OPTION B

Scale: 1 ½"=1'-0"



SIGN FACE LAYOUT - OPTION C

Scale: 1 ½"=1'-0"

Wall mount - Identification ST - 156

DESCRIPTION: Wall mount - Services I.D. with Braille

LOCATION: Used at location of services and stairs.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss 721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 (White)
3. Band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
4. Symbol: 3M Opaque Film # 220-10 (White)
5. Braille: 1/32" thick raised surface letters (white)
6. Letter box: N/A
7. Header/Side Panel: N/A
8. Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Wall mount.

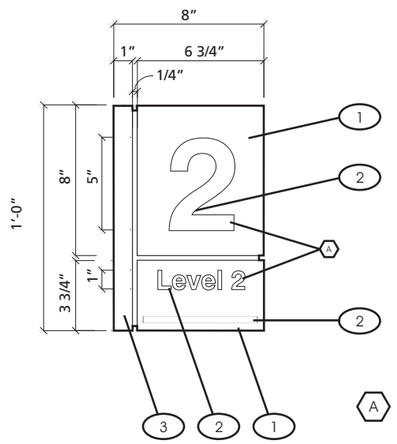
ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

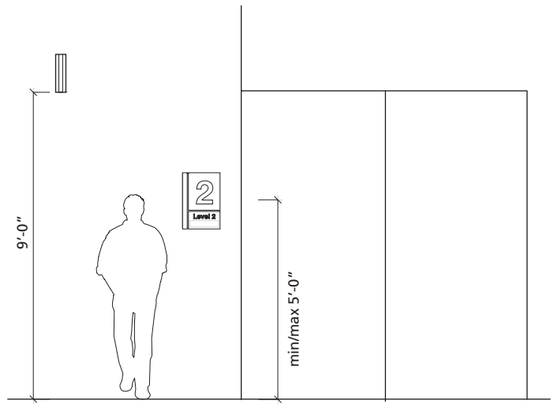
1. 1/4- 20 toggler MC 97802A219 (X2)
2. 1/4- 20 X 2" SS FH MS MC 91771A550 (X2)
3. ½"Saw cut PVC for SMS
4. #8 X ½ SS FH SMS MC 90065A194 (X4)
5. 3/4" X 3/4" X 1/8" alum angle
6. .090 alum face, mounted to alum angle w/ VHB 4930
7. 1/8" acrylic panel w/ bead braill ptd. To match Black mtd. To alum backer panel w/ permastick

#	Revision	Date



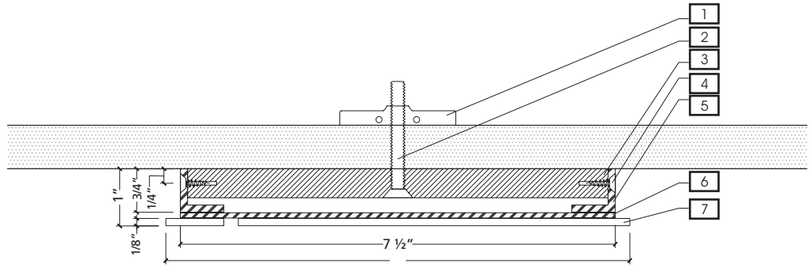
SIGN FACE LAYOUT - OPTION A

Scale: 1 ½"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL - Section A (For Design Intent Only)

Scale: N.T.S.

Wall mount - Identification ST - 157

DESCRIPTION: Wall mount - Level I.D. With Braille

LOCATION: Used at locations close to stairs to identify levels..

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- (A) Swiss 721 BT Bold
- (B) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: 3M Opaque Film #220-10 (White)
- (3) Band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (4) Symbol: 3M Opaque Film # 220-10 (White)
- (5) Braille: 1/32" thick raised surface letters (white)
- (6) Letter box: N/A
- (7) Header/Side Panel: N/A
- (8) Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Wall mount.

ILLUMINATION: Sign will be non-illuminated.

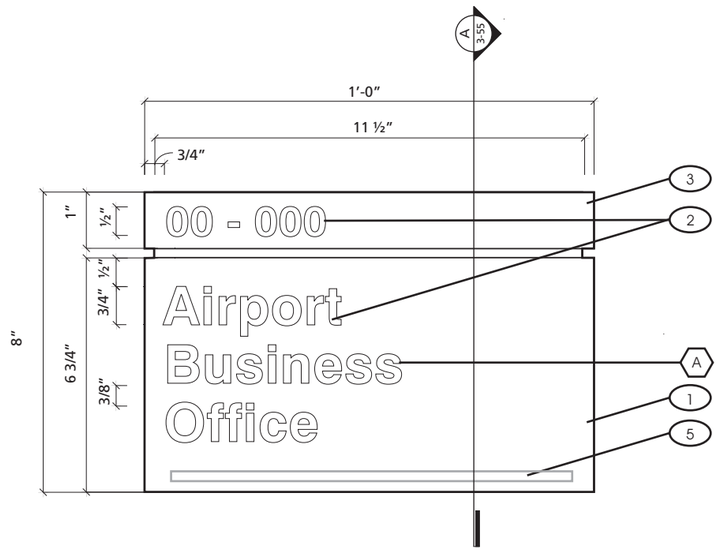
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. 1/4- 20 toggler MC 97802A219 (X2)
2. 1/4- 20 X 2" SS FH MS MC 91771A550 (X2)
3. ½"Saw cut PVC for SMS
4. #8 X ½ SS FH SMS MC 90065A194 (X4)
5. 3/4" X 3/4" X 1/8" alum angle
6. .090 alum face, mounted to alum angle w/ VHB 4930
7. 1/8" acrylic panel w/ bead braill ptd. To match Black mtd. To alum backer panel w/ permastick

Identification - Secondary 3.5.2

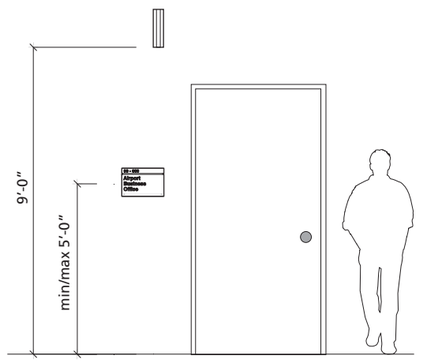
#	Revision	Date



SIGN FACE LAYOUT - OPTION A

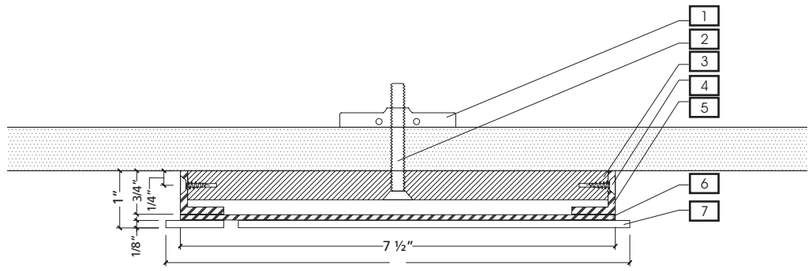
Scale: 3"=1'-0"

Note: See next page for alternate layouts.



ELEVATION

Scale: N.T.S.



DETAIL - Section A (For Design Intent Only)

Scale: N.T.S.

Wall mount - Identification ST - 158

DESCRIPTION: Wall mount - Room I.D. with Braille

LOCATION: Used at room entrances.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss 721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: 3M Opaque Film #220-10 (White)
- 3 Band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 4 Symbol: N/A
- 5 Braille: 1/32" thick raised surface letters (white)
- 6 Letter box: N/A
- 7 Side Panel: N/A
- 8 Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Wall mount.

ILLUMINATION: Sign will be non-illuminated.

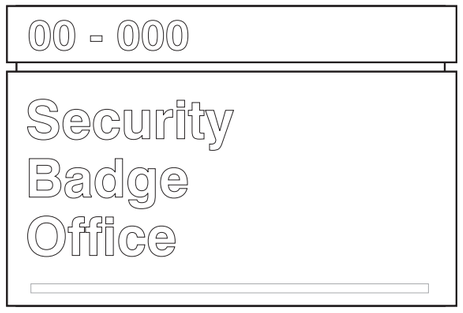
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. 1/4- 20 toggler MC 97802A219 (X2)
2. 1/4- 20 X 2" SS FH MS MC 91771A550 (X2)
3. ½"Saw cut PVC for SMS
4. #8 X ½ SS FH SMS MC 90065A194 (X4)
5. 3/4" X 3/4" X 1/8" alum angle
6. .090 alum face, mounted to alum angle w/ VHB 4930
7. 1/8" acrylic panel w/ bead braill ptd. To match Black mtd. To alum backer panel w/ permastick

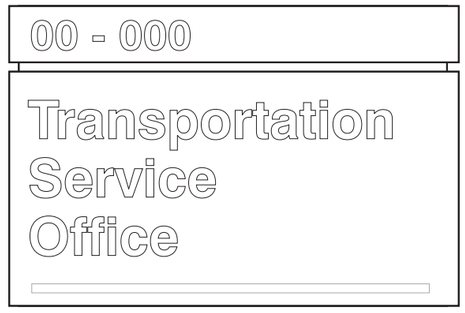
Identification - Secondary 3.5.2

#	Revision	Date



SIGN FACE LAYOUT - OPTION B

Scale: 3″=1′-0″



SIGN FACE LAYOUT - OPTION C

Scale: 3″=1′-0″



SIGN FACE LAYOUT - OPTION D

Scale: 3″=1′-0″

Wall mount - Identification ST - 158

DESCRIPTION: Wall mount - Room I.D. with Braille

LOCATION: Used at room entrances.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss 721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 (White)
3. Band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
4. Symbol: N/A
5. Braille: 1/32″ thick raised surface letters (white)
6. Letter box: N/A
7. Side Panel: N/A
8. Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Wall mount.

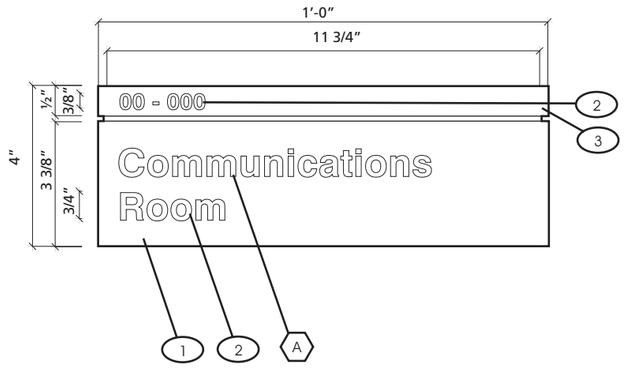
ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. 1/4- 20 toggler MC 97802A219 (X2)
2. 1/4- 20 X 2" SS FH MS MC 91771A550 (X2)
3. ½"Saw cut PVC for SMS
4. #8 X ½ SS FH SMS MC 90065A194 (X4)
5. 3/4" X 3/4" X 1/8" alum angle
6. .090 alum face, mounted to alum angle w/ VHB 4930
7. 1/8" acrylic panel w/ bead braill ptd. To match Black mtd. To alum backer panel w/ permastick

#	Revision	Date



SIGN FACE LAYOUT - OPTION A

Scale: 3"=1'-0"

Note: See next page for alternate layouts.

Wall mount - Identification ST - 159

DESCRIPTION: Wall mount - Room I.D. with Braille

LOCATION: Used at room entrances.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss 721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: 3M Opaque Film #220-10 (White)
- 3 Band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 4 Symbol: N/A
- 5 Braille: 1/32" thick raised surface letters (white)
- 6 Letter box: N/A
- 7 Side Panel: N/A
- 8 Header Text: N/A

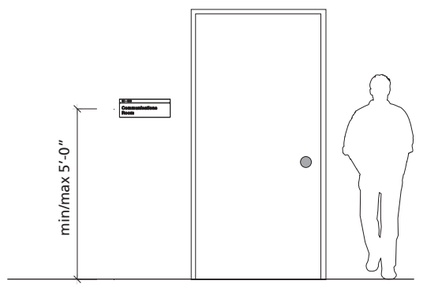
GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Wall mount.

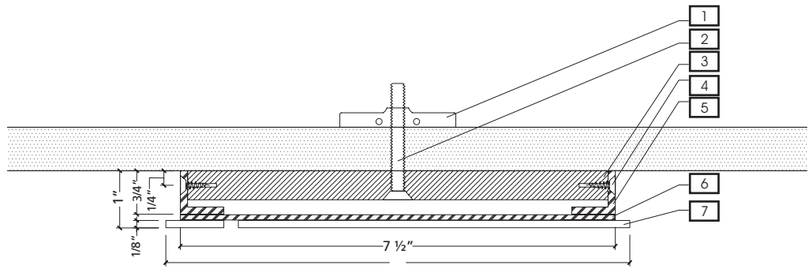
ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.



ELEVATION

Scale: N.T.S.



DETAIL - Section A (For Design Intent Only)

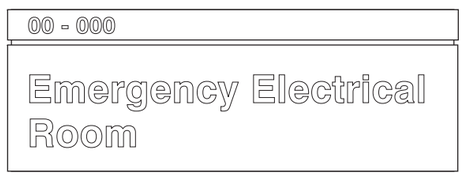
Scale: N.T.S.

NOTES:

1. 1/4- 20 toggler MC 97802A219 (X2)
2. 1/4- 20 X 2" SS FH MS MC 91771A550 (X2)
3. ½"Saw cut PVC for SMS
4. #8 X ½ SS FH SMS MC 90065A194 (X4)
5. 3/4" X 3/4" X 1/8" alum angle
6. .090 alum face, mounted to alum angle w/ VHB 4930
7. 1/8" acrylic panel w/ bead braill ptd. To match Black mtd. To alum backer panel w/ permastick

Identification - Secondary 3.5.2

#	Revision	Date



SIGN FACE LAYOUT - OPTION B
Scale: 3″=1′-0″



SIGN FACE LAYOUT - OPTION C
Scale: 3″=1′-0″



SIGN FACE LAYOUT - OPTION D
Scale: 3″=1′-0″



SIGN FACE LAYOUT - OPTION E
Scale: 3″=1′-0″

Wall mount - Identification ST - 159

DESCRIPTION: Wall mount - Room I.D.

LOCATION: Used at room entrances.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss 721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 (White)
3. Band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
4. Symbol: N/A
5. Letter: N/A
6. Letter box: N/A
7. Side Panel: N/A
8. Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Wall mount.

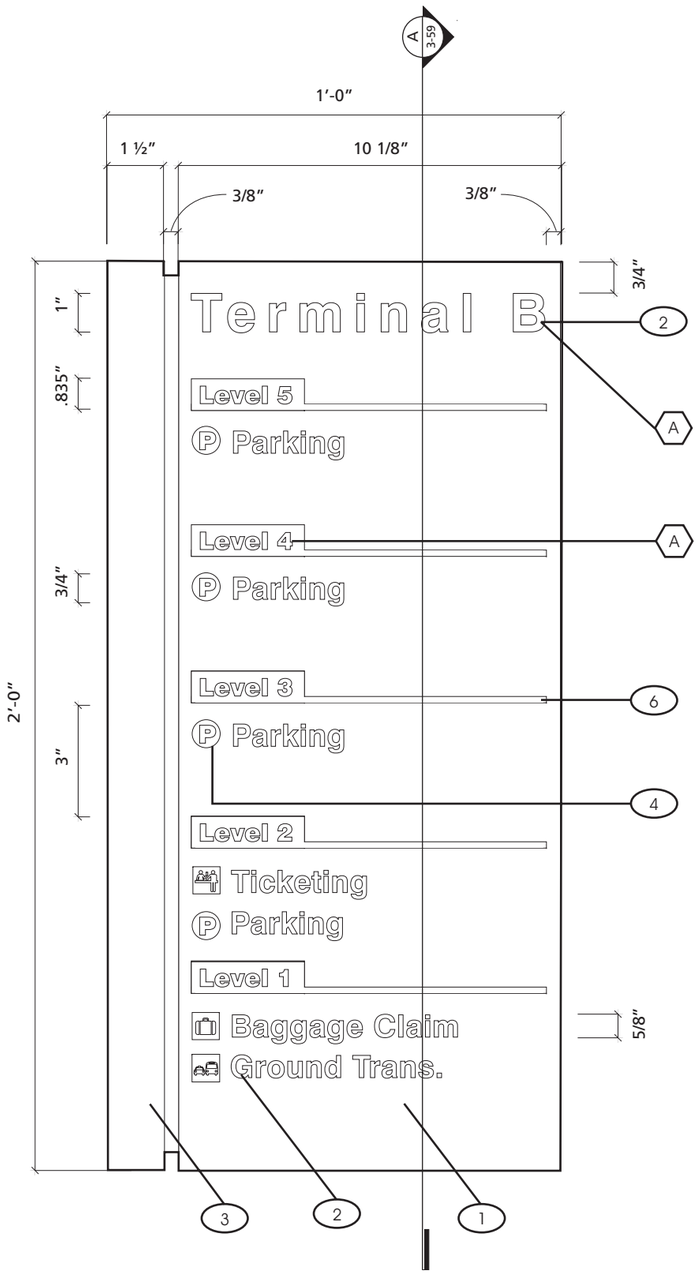
ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

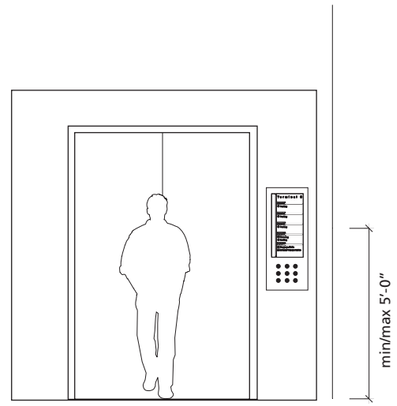
1. .125″ aluminum panel secured to angle frame.
2. 1″x1″x.125″ aluminum angle frame.
3. 1″x1″x.125″ aluminum mounting bracket.

#	Revision	Date



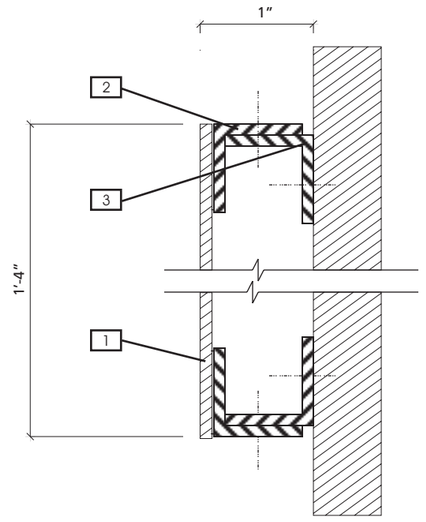
SIGN FACE LAYOUT - OPTION A

Scale: 3"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL - Section A (For Design Intent Only)

Scale: N.T.S.

Wall mount - Identification ST - 160

DESCRIPTION: Wall mount - Elevator Plaque

LOCATION: Used inside elevators.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss 721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: 3M Opaque Film #220-10 (white)
- 3 Band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 4 Symbol: 3M Opaque Film # 220-10 (White)
- 5 Letter: N/A
- 6 Ruler Line: PMS 425 (Grey)
- 7 Side Panel: N/A
- 8 Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Wall mount.

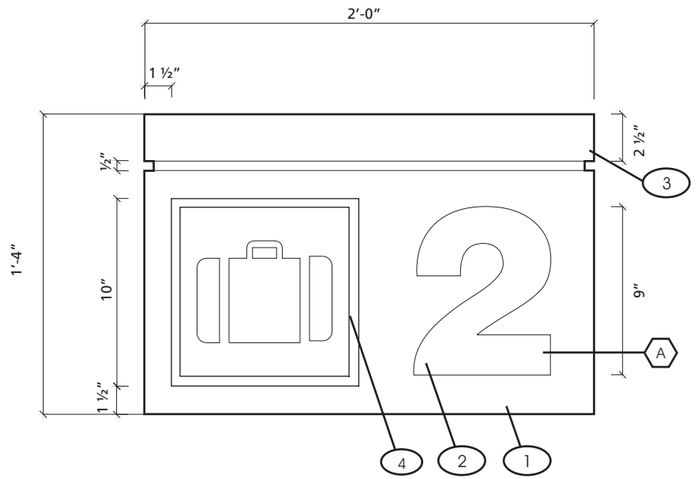
ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

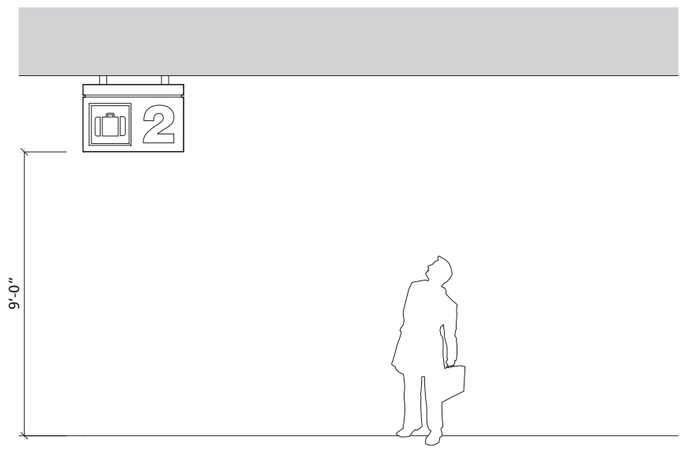
1. .125" aluminum panel secured to angle frame.
2. 1"x1"x.125" aluminum angle frame.
3. 1"x1"x.125" aluminum mounting bracket.

#	Revision	Date



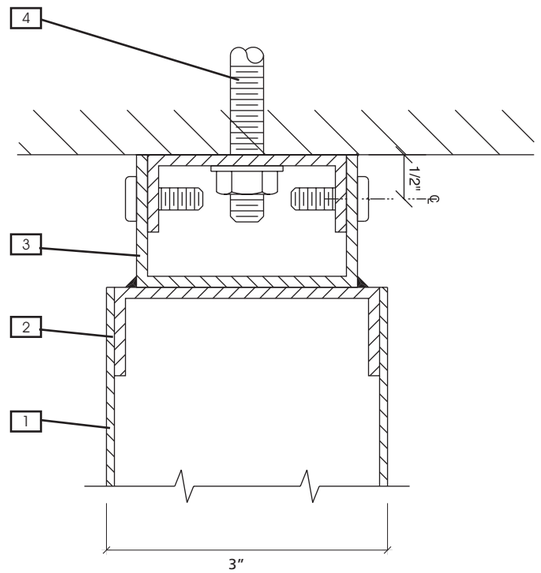
SIGN FACE LAYOUT - OPTION A

Scale: 1 ½"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S.

Overhead - Identification ST - 161

DESCRIPTION: Overhead Suspended - Baggage Claim I.D.

LOCATION: Used at the carousels when at column is not available.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- (A) Swiss 721 BT Bold
- (B) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: 3M Opaque Film #220-10 (White)
- (3) Band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (4) Symbol: 3M Opaque Film # 220-10 (White)
- (5) Letter: N/A
- (6) Letter box: N/A
- (7) Header/Side Panel: N/A
- (8) Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Overhead Suspended.

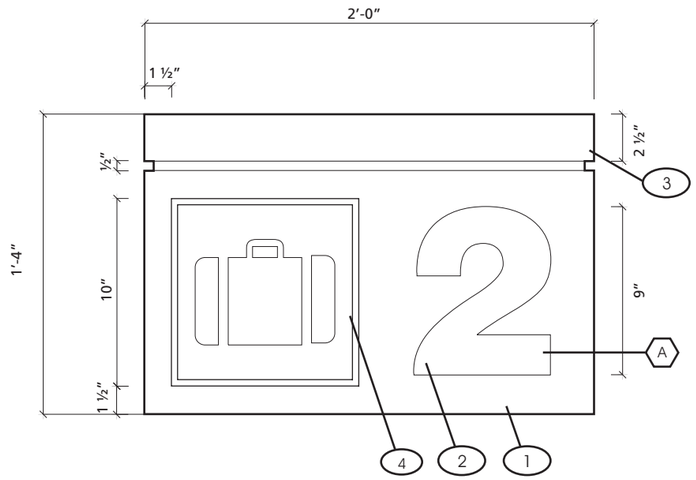
ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

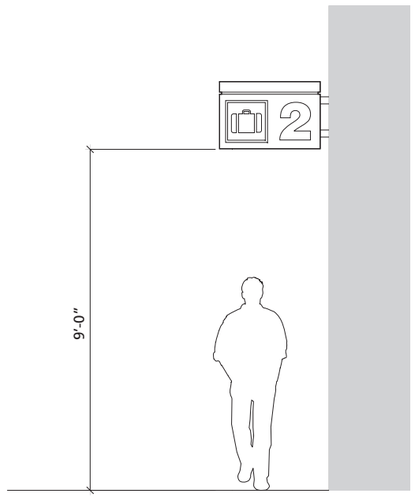
1. .090" Aluminum face.
2. 3"x1"x.125" Aluminum channel frame with mitered and welded corners.
3. 2 1/2"x1 1/2"x.125" Aluminum channel with capped ends - weld to channel frame.
4. 3/8" Dia. Mounting stud. (by others).

#	Revision	Date



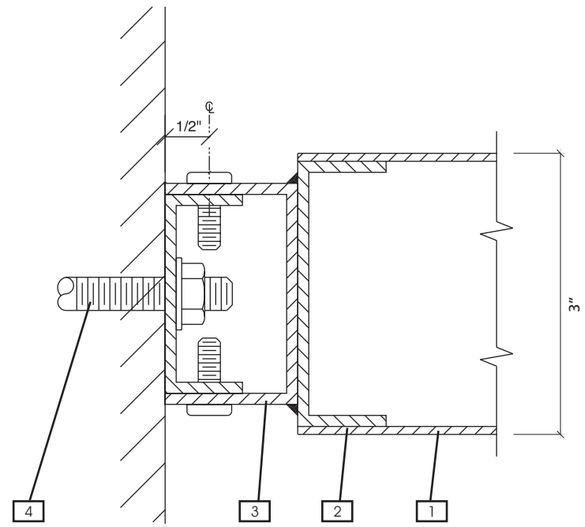
SIGN FACE LAYOUT - OPTION A

Scale: 1 ½"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S.

Flag Mount - Identification ST - 162

DESCRIPTION: Flag Mount - Baggage Claim I.D.

LOCATION: Used at the columns around the baggage carousels.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- (A) Swiss 721 BT Bold
- (B) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: 3M Opaque Film #220-10 (White)
- (3) Band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (4) Symbol: 3M Opaque Film # 220-10 (White)
- (5) Letter: N/A
- (6) Letter box: N/A
- (7) Header/Side Panel: N/A
- (8) Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Flag Mount.

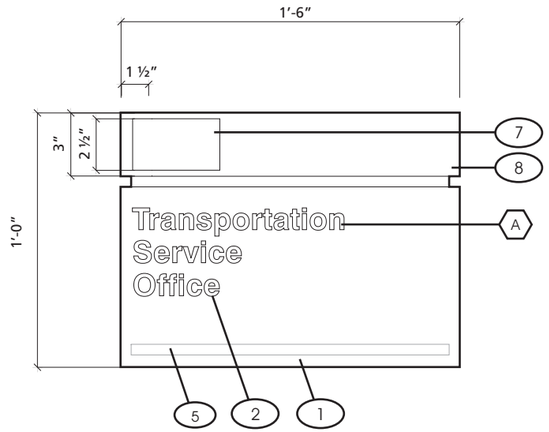
ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. .090" Aluminum face.
2. 3"x1"x.125" Aluminum channel frame with mitered and welded corners.
3. 2 1/2"x1 1/2"x.125" Aluminum channel with capped ends - weld to channel frame.
4. 3/8" Dia. Mounting stud. (by others).

#	Revision	Date



SIGN FACE LAYOUT - OPTION A

Scale: 1 ½"=1'-0"

Note: See next page for alternate layouts.

Wall mount - Identification ST - 163

DESCRIPTION: Wall mount - Massport Door ID Plaque

LOCATION: Used at room entrances of Massport Offices

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:

- A Swiss 721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 (white)
3. Band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
4. Symbol: 3M Opaque Film # 220-10 (White)
5. Braille: 1/32" thick raised surface letters (white)
6. Ruler Line: PMS 425 (Grey)
7. Logo: Massport Logo to be provided by the client.
8. Header: Brushed Stainless Steel Finish

GRAPHICS: N/A

ARROWS: N/A

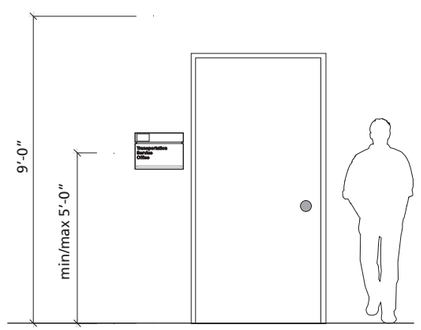
MOUNTING: Wall mount.

ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

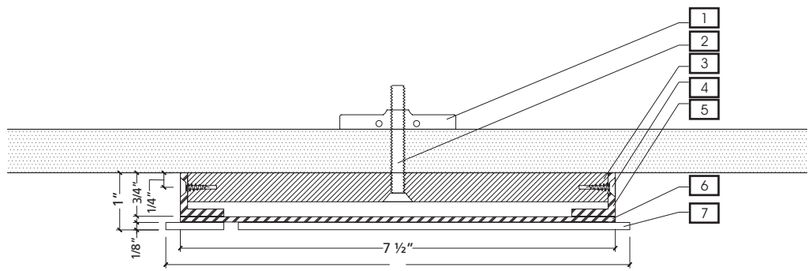
NOTES:

1. 1/4- 20 toggler MC 97802A219 (X2)
2. 1/4- 20 X 2" SS FH MS MC 91771A550 (X2)
3. ½"Saw cut PVC for SMS
4. #8 X ½ SS FH SMS MC 90065A194 (X4)
5. 3/4" X 3/4" X 1/8" alum angle
6. .090 alum face, mounted to alum angle w/ VHB 4930
7. 1/8" acrylic panel w/ bead braill ptd. To match Black mtd. To alum backer panel w/ permastick



ELEVATION

Scale: N.T.S.

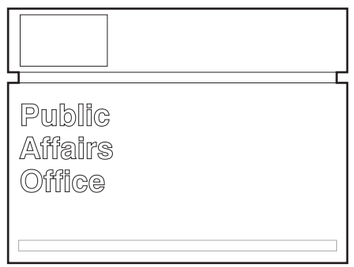


DETAIL - Section A (For Design Intent Only)

Scale: N.T.S.

Identification - Secondary 3.5.2

#	Revision	Date



SIGN FACE LAYOUT - OPTION B

Scale: 1 ½"=1'-0"



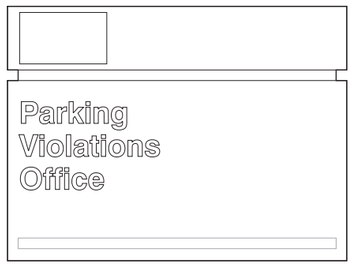
SIGN FACE LAYOUT - OPTION C

Scale: 1 ½"=1'-0"



SIGN FACE LAYOUT - OPTION D

Scale: 1 ½"=1'-0"



SIGN FACE LAYOUT - OPTION E

Scale: 1 ½"=1'-0"



SIGN FACE LAYOUT - OPTION F

Scale: 1 ½"=1'-0"

Wall mount - Identification ST - 163

DESCRIPTION: Wall mount - Massport Door ID Plaque

LOCATION: Used at room entrances of Massport Offices

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss 721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: 3M Opaque Film #220-10 (white)
- 3 Band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 4 Symbol: 3M Opaque Film # 220-10 (White)
- 5 Braille: 1/32" thick raised surface letters (white)
- 6 Ruler Line: PMS 425 (Grey)
- 7 Logo: Massport Logo to be provided by the client.
- 8 Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Wall mount.

ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1 1/4- 20 toggler MC 97802A219 (X2)
2 1/4- 20 X 2" SS FH MS MC 91771A550 (X2)
3 ½"Saw cut PVC for SMS
4 #8 X ½ SS FH SMS MC 90065A194 (X4)
5 3/4" X 3/4" X 1/8" alum angle
6 .090 alum face, mounted to alum angle w/ VHB 4930
7 1/8" acrylic panel w/ bead braill ptd. To match Black mtd. To alum backer panel w/ permastick

Identification - Secondary 3.5.2

#	Revision	Date



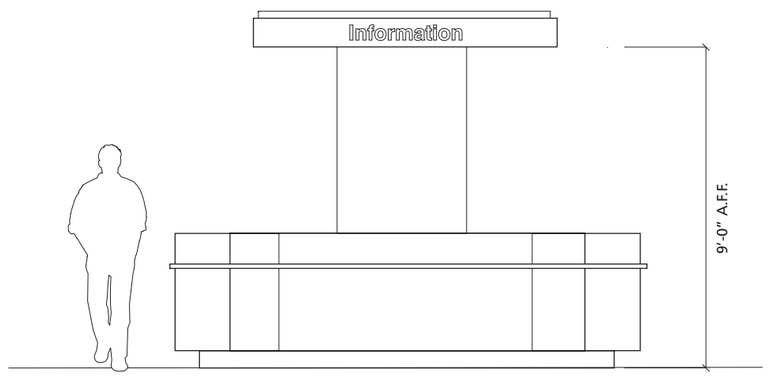
SIGN FACE LAYOUT - OPTION A

Scale: 1 ½"=1'-0"



SIGN FACE LAYOUT - OPTION B

Scale: 1 ½"=1'-0"



ELEVATION

Scale: N.T.S.

Identification ST - 164

DESCRIPTION: Information Booth Header

LOCATION: Used at Information Booths

MATERIALS: Laser cut dimensional letters.

LETTERING:
- A Swiss 721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: Perforated Metal Panel
- 2 Text: Laser-cut dimensional letters, stainless steel satin no. 4 face finish with water jet sides.
- 3 Band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 4 Symbol: N/A
- 5 Text: N/A
- 6 Ruler Line: N/A
- 7 Side Panel: N/A
- 8 Header Text: N/A

GRAPHICS: N/A

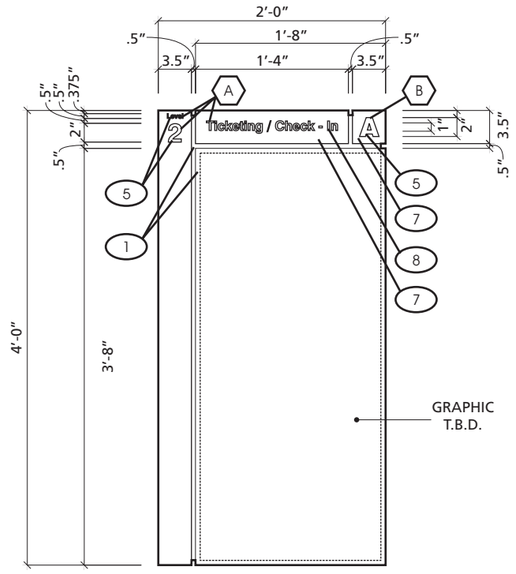
ARROWS: N/A

MOUNTING: N/A

ILLUMINATION: Sign will be non-illuminated.

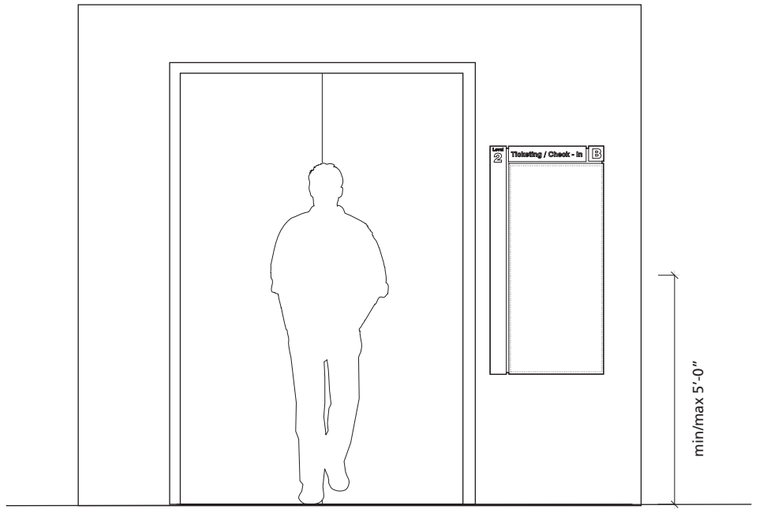
REMARKS: Refer to Section 2.5 for vinyl specifications.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



SIGN FACE LAYOUT - OPTION B

Scale: 1 1/2"=1'-0"



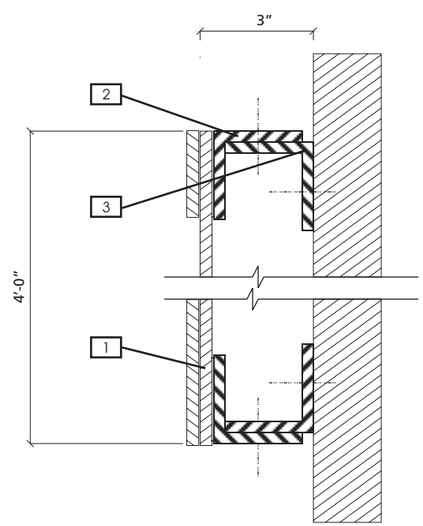
SIGN FACE LAYOUT - OPTION C

Scale: 1 1/2"=1'-0"



SIGN FACE LAYOUT - OPTION D

Scale: 1 1/2"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S.

Wall mount - Informational ST - 181

DESCRIPTION: Wall mount - Elevator directory.

LOCATION: Terminals. Used at elevator locations.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: N/A
- 3 Band: N/A
- 4 Symbol: N/A
- 5 Letter: 3M Opaque Film #220-10 (White) or approved equal
- 6 Letter box: N/A
- 7 Header/Side Panel:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 8 Header Text: N/A

GRAPHICS: Final directory artwork by others.

ARROWS: N/A

MOUNTING: Wall mount.

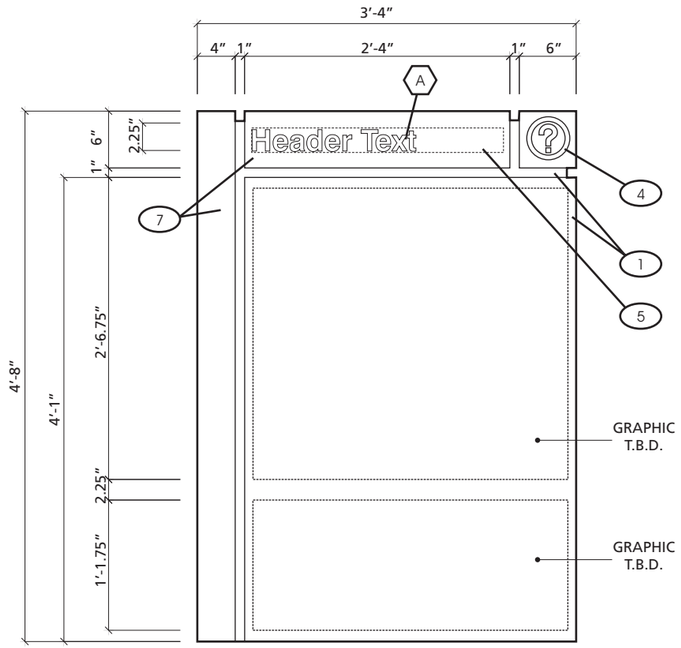
ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

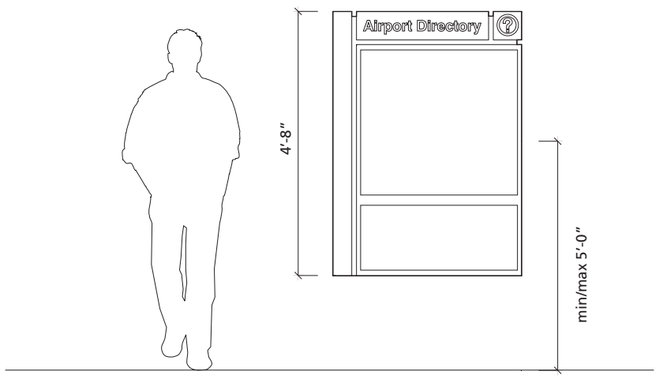
1. .125" aluminum panel secured to angle frame.
2. 1"x1"x.125" aluminum angle frame.
3. 1"x1"x.125" aluminum mounting bracket.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.

Airport Directory

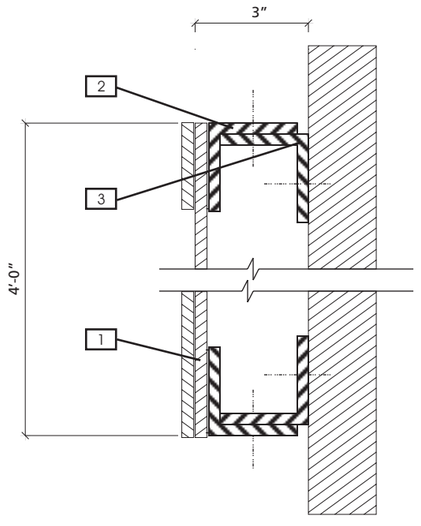
SIGN FACE LAYOUT - OPTION A

Terminal Directory

SIGN FACE LAYOUT - OPTION B

G.T. Directory

SIGN FACE LAYOUT - OPTION C



DETAIL (For Design Intent Only)

Scale: N.T.S.

Wall mount - Informational ST - 182

DESCRIPTION: Wall mount - Airport directory.

LOCATION: Terminals. Primary circulation corridors parallel to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:

- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: N/A
3. Band: N/A
4. Symbol: N/A
5. Letter: 3M Opaque Film #220-10(White) or approved
6. Letter box: N/A
7. Header/Side Panel:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
8. Header Text: N/A

GRAPHICS: Final directory artwork by others.

ARROWS: N/A

MOUNTING: Wall mount.

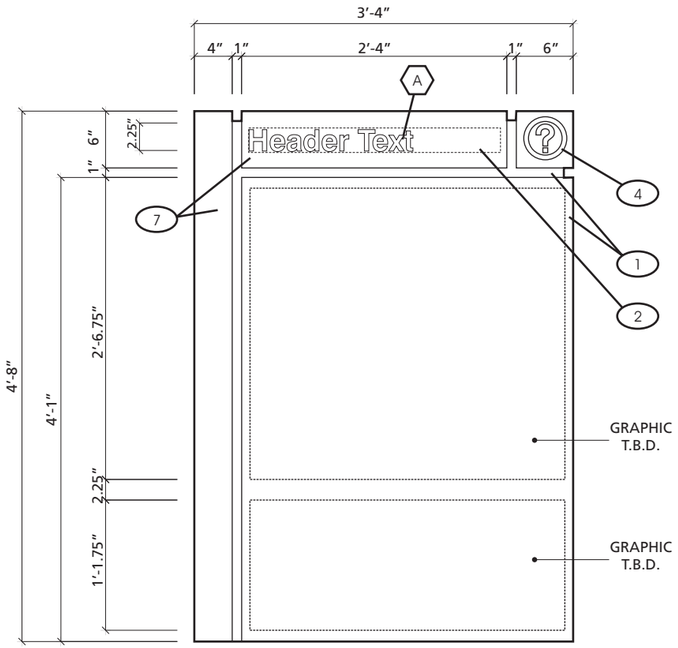
ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

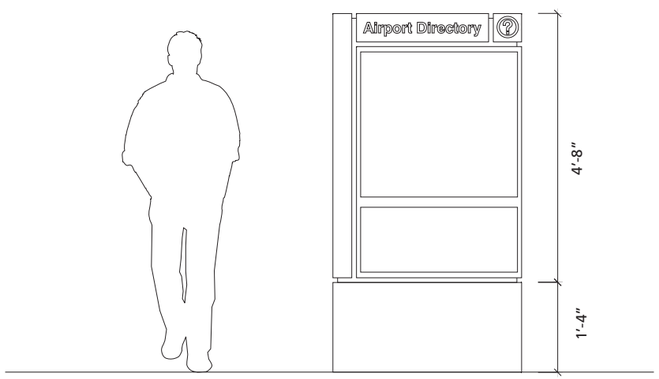
1. .125" aluminum panel secured to angle frame.
2. 1"x1"x.125" aluminum angle frame.
3. 1"x1"x.125" aluminum mounting bracket.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.

Airport Directory

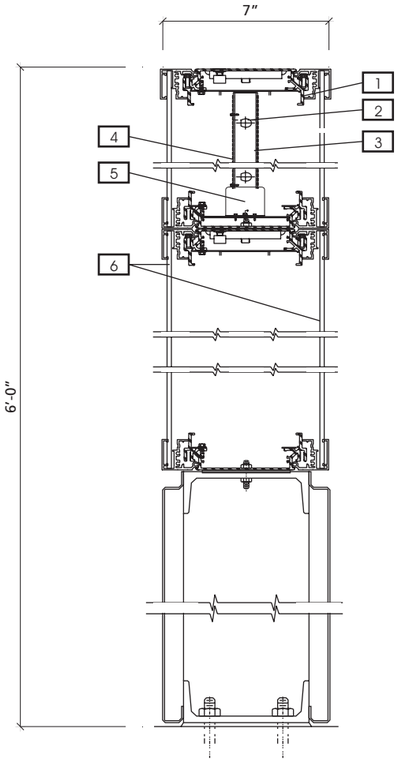
SIGN FACE LAYOUT - OPTION A

Terminal Directory

SIGN FACE LAYOUT - OPTION B

G.T. Directory

SIGN FACE LAYOUT - OPTION C



DETAIL (For Design Intent Only)

Scale: N.T.S.

Floor mount - Informational ST - 183

DESCRIPTION: Floor mount - Airport directory.

LOCATION: Terminals. Primary circulation corridors parallel to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- (A) Swiss721 BT Bold
- (B) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: Translucent Acrylic (White)
- (3) Band:
- (4) Symbol: Translucent Acrylic (White)
- (5) Letter: N/A
- (6) Letter box: N/A
- (7) Header/Side Panel:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (8) Header Text: N/A

GRAPHICS: Final directory artwork by others.

ARROWS: N/A

MOUNTING: Floor mount.

ILLUMINATION: Sign will be internally illuminated.

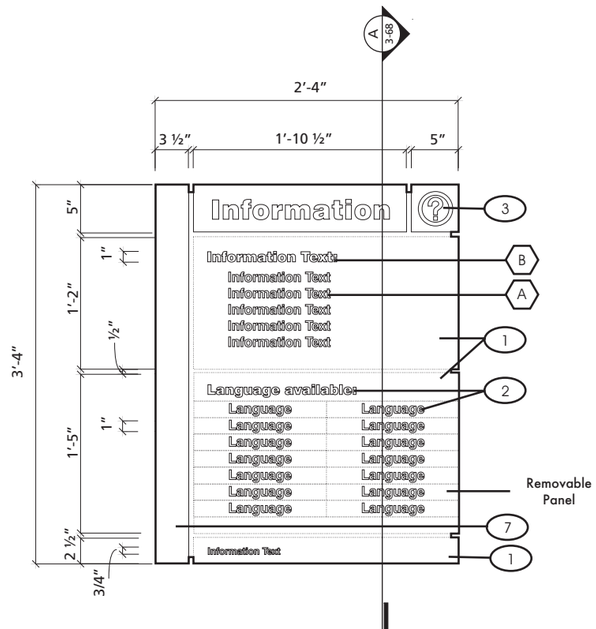
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 040" alum formed raceway cover, socket Support

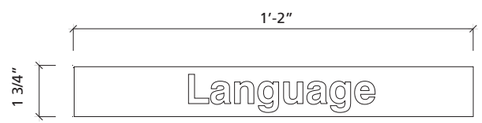
   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
5. Ballast France 688 DR
6. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT

#	Revision	Date



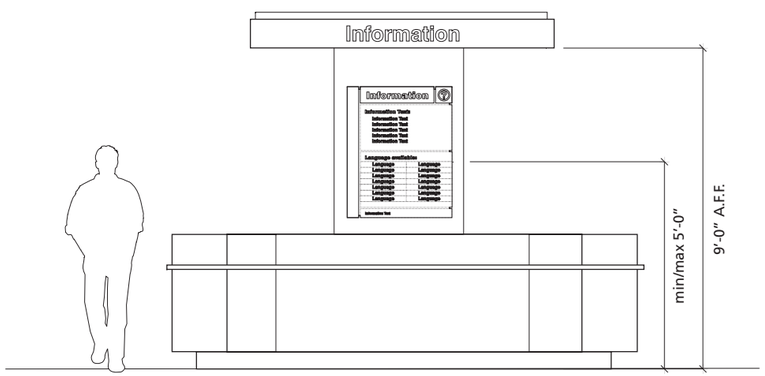
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



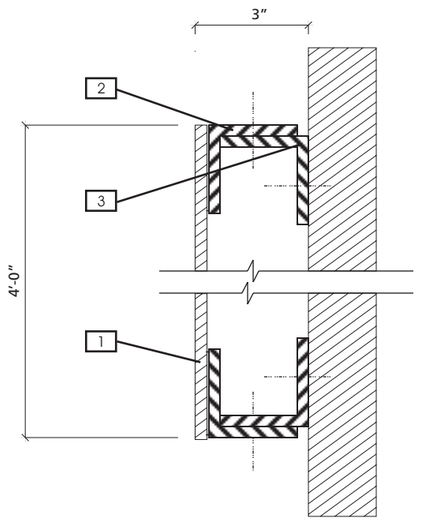
REMOVABLE PANEL - DETAIL

Scale: N.T.S.



ELEVATION

Scale: N.T.S.



DETAIL - Section A (For Design Intent Only)

Scale: N.T.S.

Wall Mount - Informational ST - 184

DESCRIPTION: Informational Directory.

LOCATION: Terminal Information Booths.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss 721 BT Bold
- B Swiss 721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: 3m Opaque Film #220-10 (White)
- 3 Header: Grey PMS 425 (Grey)
- 4 Symbol: Opaque Acrylic (White)
- 5 Letter: N/A
- 6 Letter box: N/A
- 7 Header/Side Panel:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 8 Header Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Pending.

ILLUMINATION: Sign will be non-illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. .125" aluminum panel secured to angle frame.
2. 1"x1"x.125" aluminum angle frame.
3. 1"x1"x.125" aluminum mounting bracket.

#	Revision	Date

It is important to summarize the previous signage related efforts, in an attempt to clarify the criteria for which this document is based and for a general understanding of the efforts that have lead up to the updating of the Boston Logan International Airport Signage Standards and Guidelines project.

Background

Boston Logan International Airport (BOS) is currently the 18th busiest airport in the USA and New England's primary airport, with over 26 million passengers per year using the Airport. By the year 2010, over 37 million passengers per year are expected to use the Airport's facilities.

Boston Logan International Airport is a conjunction of five connected individual terminals (Terminals A, B, C, D and E) and two major parking garages (Central Parking and Terminal B Parking). Each one of these facilities has its own architectural style, which may become an issue when trying to implement signage that is consistent throughout the Airport. Different signage systems have been implemented to custom fit the conditions of each facility resulting in a variety of sign types and sizes without uniform systematic characteristics.

As of February 2005, the issuance of this document, there are several "systems" in place that create a variation in signage conditions. The "older" system developed by Peter Muller-Munk in 1990 is still within place in several areas of the Airport (Terminal C, for example). In addition, Terminal B and its associated parking areas have an "older" signage system that was developed and implemented by the airlines.

As part of the Logan Modernization program for major landside improvements (terminals and roadways), Massport decided to establish Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft) submitted in May 2002 by Karen Lewis Design, Inc.(Graphic Standards) in an effort to create a seamless and cohesive signage system for the Airport.

These Graphic Standards have been and are continuously being implemented in sections of the Airport (Ex. Terminal E, B/C walkways). Future projects such as MPA Project No. L219-C3 Central Parking Garage Repairs and Expansion and Terminal A Redevelopment are being signed based on Karen Lewis Sign Program Guidelines and Graphic Standards.

Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft):
This program consists of a variety of sign type families for terminals, curbside, roadways and Airport service buildings. Karen Lewis Design Inc. Provided Massport with four volumes total that reference specifically to each one of these areas:

- Volume 1: Passenger Terminals Interior
- Volume 2: Passenger Terminals Curbside (Exterior)
- Volume 3: Airport Roadways (Terminal Roadways, Egress Roadways and Service Roads)
- Volume 4: Airport Service Buildings (Support Facilities)

#	Revision	Date

Background cont'd

Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft) cont'd:
Each set of sign families consisted of a variety of Directional, Informational, and Identification signs. However; a comprehensive family of identification sign types addressed for Terminals, Gates, and other important facilities/functions is not included in the program.

The existing Graphic Standards propose the use of terminal icons to identify the terminals. These icons carry the color and the letter designated for each terminal (Terminal A: Blue, Terminal B: Red, Terminal C: Green, Terminal D: Orange and Terminal E: Purple). These colors are used in directional signs in the roadways and the terminals.

Conceptual Report:
In an effort to make the passenger's wayfinding experience more pleasant throughout Boston Logan International Airport, the Massachusetts Port Authority (Massport) has decided to evaluate the feasibility of an alternate "color coded system" for the signage program and to review the existing Graphic Standards.

Massport has enlisted the services of Carter & Burgess, Inc (CB) to evaluate the possibility of an alternate "color coded system" and to provide examples of different "color coded systems" currently being implemented at other airports around the country.

The analysis of the existing "color-coded" systems within other airports, that Carter & Burgess, Inc reviewed, consisted of examples from the current Amsterdam's Schiphol International Airport. This specific system utilizes three sign background colors to differentiate between three primary airport function groupings: (yellow) flight services, (green) leaving the airport, and (black) auxiliary services.

Carter and Burgess, Inc summarized and evaluated the "color coded" system, reviewed the in-place signage conditions and current Graphic Standards at BOS and provided Massport with recommendations and alternatives to improve the Airport's signage system. The alternatives and brief description are as follows:

ALTERNATIVE 1 - MODIFY / PROCEED WITH CURRENT GRAPHIC STANDARDS:
Update and further standardize the current Graphic Standards along with additional solutions to enhance the overall program. There are areas on these standards that require enhancement, such as curbside color-coding, messaging on overhead roadways, addition of supplemental sign types, etc. In addition, there is a need to include dynamic signage, VMS, and a signage database.

ALTERNATIVE 2 DEVELOP NEW COLOR-CODED SIGN PROGRAM:
Re-evaluate the current sign program airport-wide and revise the system to be in compliance with the color-coding based on the "Schiphol-model".

ALTERNATIVE 3 HYBRID SIGNAGE SYSTEM:
Integrate the new color-coding principles with the current Graphic Standards. The alternative would include implementing color-coding to a lesser degree than used at Schiphol or NY/NJ, but still utilize the methodology of the system. Color-coding only the international symbols or using color-coding rule lines/ bands may achieve this.

#	Revision	Date

Background cont'd

Conceptual Report con't:
The complete list of conclusions and recommendations as well as the results of the study can be found in the "Conceptual Report: Color-Coded Wayfinding Study" submitted to Boston Logan International Airport on April 2003.

Wayfinding Analysis and Plan:
Based on the recommendations and alternatives proposed by CB in the "Conceptual Report: Color-Coded Wayfinding Study", Massport commissioned Carter and Burgess to develop a Wayfinding Analysis and Plan in July 2003.

The purpose of the Wayfinding Analysis and Plan was to identify and determine key wayfinding decision points for passengers throughout Boston Logan International Airport for proper wayfinding signing. This analysis included terminals, curbside, garage, frontage roadways, etc. , and develop a plan of recommendations showing conceptually how to improve these problematic areas. CB performed a series of site surveys at BOS in order to identify and determine major circulation patterns throughout the airport as well as major decision points.

The data collected during those visits through photos, videos, surveys, meetings and drawings was used to determine key recommendations that would improve the wayfinding and signage system at the Airport.

In general, the study found that there are signage issues, short-term and long-term, that need to be addressed at BOS. CB provided Massport with general recommendations that would improve the wayfinding and signage system at BOS in both short-term and long-term bases.

SHORT-TERM RECOMMENDATIONS:
As part of the short-term solutions, Carter & Burgess, Inc determined typical problematic areas for proper wayfinding and signage throughout the Airport and recommend interim solutions for each one of these situations.

CB provided Massport with temporary solutions for terminals, curbside, parking and roadways that can be found in the packages listed below:

- Short-Term Recommendations Terminals: Submitted February 16th, 2004
- Short-Term Recommendations Curbside: Submitted March 16th, 2004
- Short-Term Recommendations Parking: Submitted March 16th, 2004
- Short-Term Recommendations Roadways: Submitted March 23rd, 2004

LONG-TERM RECOMMENDATIONS:
As part of the long-term solutions, CB studied the current signage systems being used at BOS and revised the current Graphic Standards that are being implemented in order to provide the Airport with long-term recommendations. These recommendations included changes in the nomenclature, terminology, message hierarchy, international symbols, color-coded system, sign types and other important issues that would affect the signage system throughout the Airport.

The long-term recommendations were presented to the BOS Signage Committee in different occasions through four Signage Committee Work-Sessions:

#	Revision	Date

Background cont'd

Wayfinding Analysis and Plan cont'd:

1. Signage Committee Work-Session No.1 held on 10/29/03
2. Signage Committee Work-Session No.2 held on 12/19/03
3. Signage Committee Work-Session No.3 held on 04/28/04

The decisions made by the Committee during the Work-Sessions determined the direction of the Signage Standards and Guidelines. Detailed recommendations regarding Terminology, Message Hierarchy, International Symbols, Typography, etc,. can be found in the Section 2.0 Graphic Standards of the Signage Standards and Guidelines for each area.

Signage Standards and Guidelines:
Upon the completion of the Wayfinding Analysis and Plan CB was commissioned for a third task at BOS. This task consisted of revising and modifing the Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft). This document is the first of five volumes of the Signage Standards and Guidelines developed by CB.

The objective of the Signage Standards and Guidelines is to provide a set of design standards, requirements and design criteria to be used for all interior and exterior signing applications at BOS. The document will be the primary reference for those designing and implementing the Airport's capital improvement program. Criteria relating to terminology/symbology, graphic layout, letter style, arrow size, size relationships, color relationships, sign types, mounting conditions, etc. is set forth in these standards and guidelines.

Signs Regulated by the Documents:

- All exterior and interior directional, identification, and informational signs for public throughout the airport property:
  - Access Roadway
  - Airport Roadway
  - Curbside (Upper, Lower)
  - Ground Transportation
  - Terminal(s)
  - Parking Garage and Sub-ordinate Parking Facilities
  - Airport Services Facilities

There are five "volumes" in the total set of Graphics Standards and Guidelines for BOS. Each volume is a separate reference to a different area(s) or new development as follows:

- Volume 1:Terminals
- Volume 2: Curbside and Ground Transportation
- Volume 3: Parking
- Volume 4: Roadways
- Volume 5:Airport Services Facilities

#	Revision	Date

Background cont'd

Based on the determination of required messages in the various areas of the airport property and the relationship of message function to message hierarchy, a numbering system was developed to classify sign types. The following list outlines all of the sign type series used at BOS.

Series 100 - Terminal
- Directional 101 - 150
- Identification 151 - 180
- Informational 181 - 199

Series 200 - Curbside/Ground Transportation
- Directional 201 - 250
- Identification 251 -280
- Informational 281 - 299

Series 300 - Parking
- Directional 301 - 350
- Identification 351 -380
- Informational 381 - 399

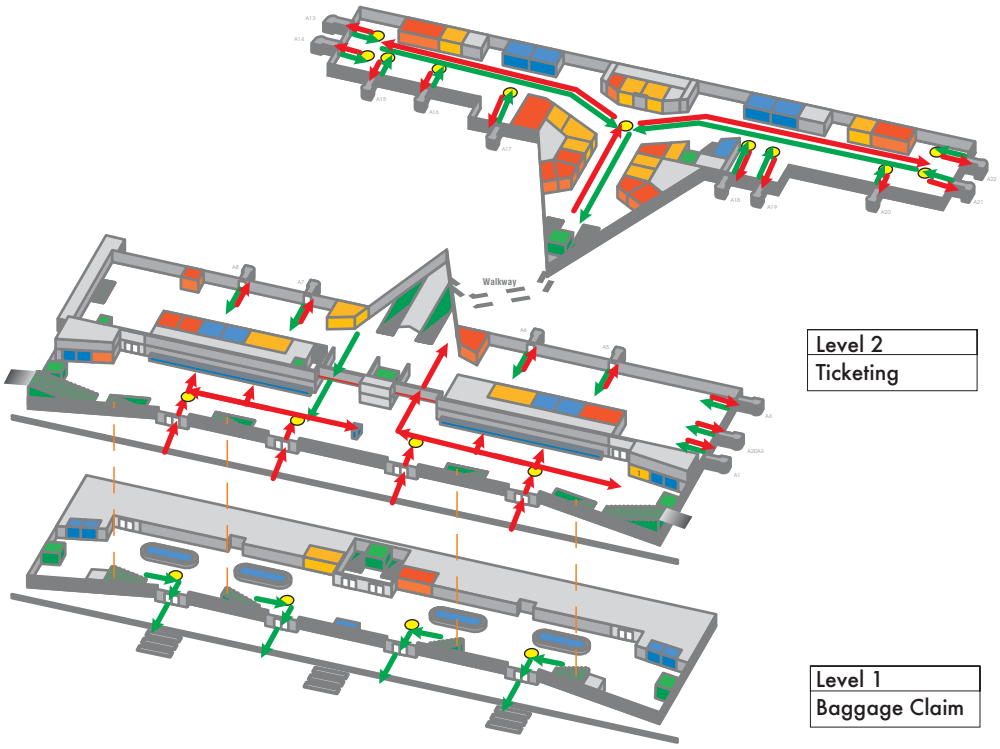
Series 400 - Roadways
- Directional 401 - 450
- Identification 451 - 480
- Informational 481 - 499

Series 500 - Airport Services Buildings
- Directional 501 - 550
- Identification 551 - 580
- Informational 581 - 599

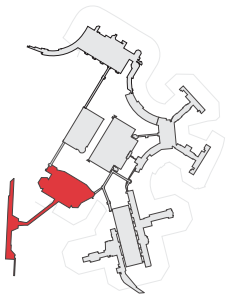
#	Revision	Date

APPENDIX

Circulation Diagrams



Airport Key Plan



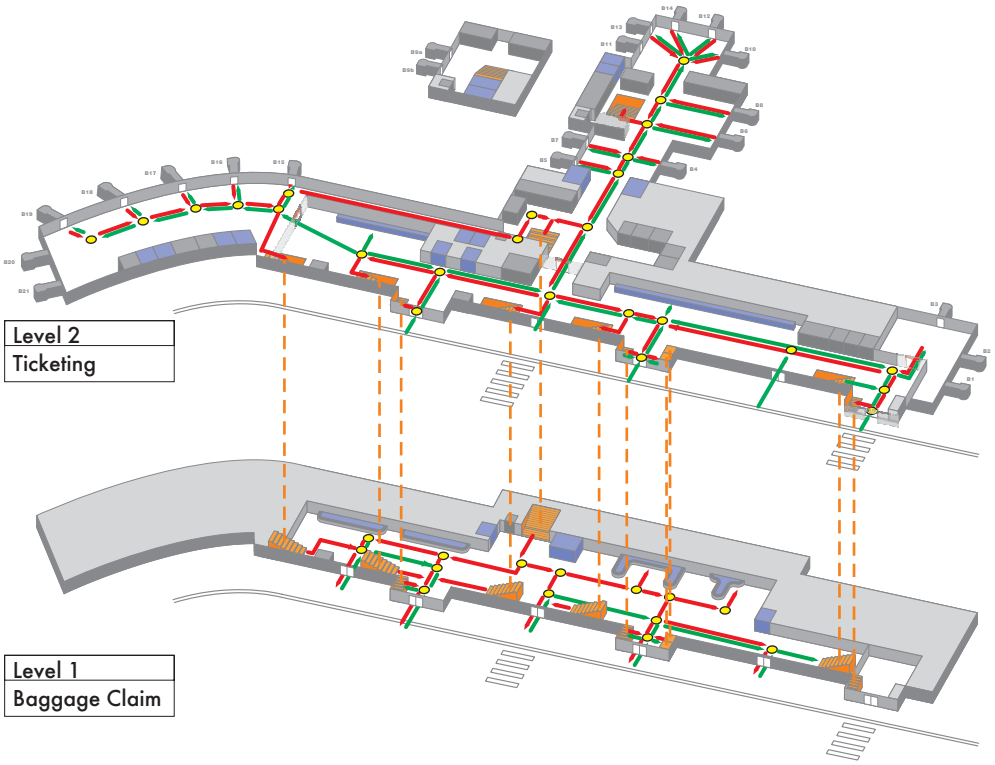
Traffic Flow Key			
Arrival Flow	Departure flow	Vertical Circulation	Decision Point

Terminal A - Circulation Diagram

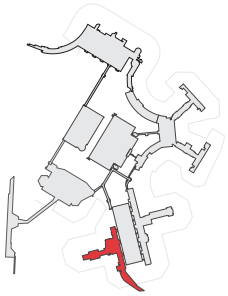
Figure A-01

#	Revision	Date

Circulation Diagrams



Airport Key Plan



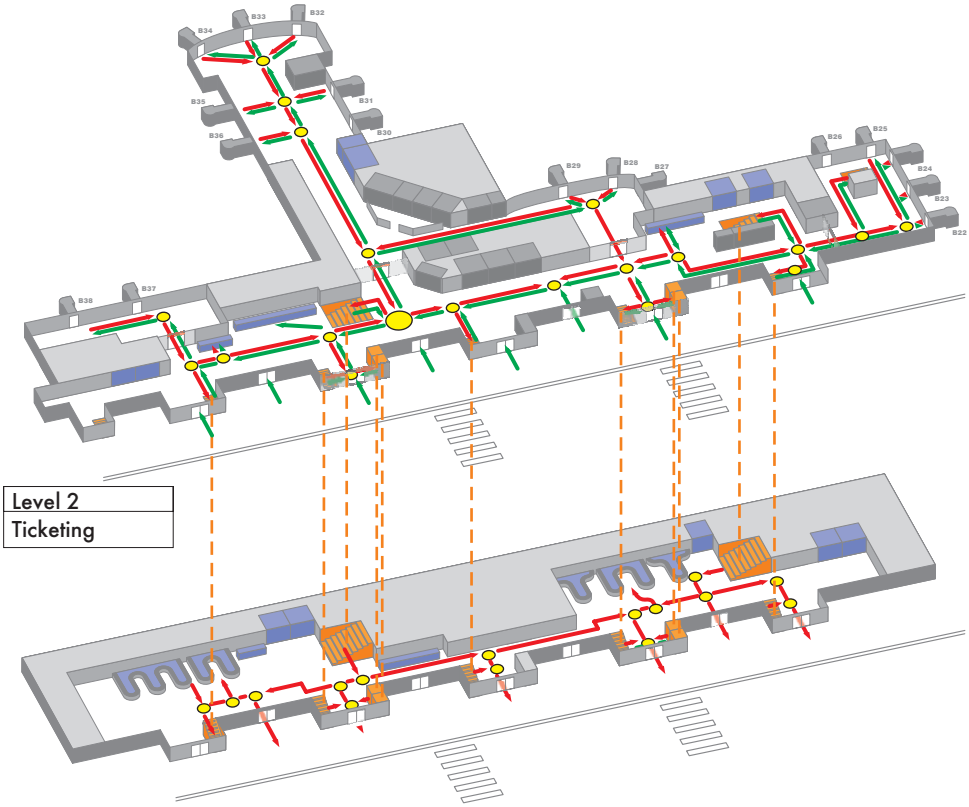
Traffic Flow Key			
Arrival Flow	Departure flow	Vertical Circulation	Decision Point

Terminal B - Circulation Diagram

Figure A-02

#	Revision	Date

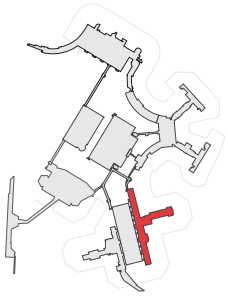
Circulation Diagrams



Level 2
Ticketing

Level 1
Baggage Claim

Airport Key Plan



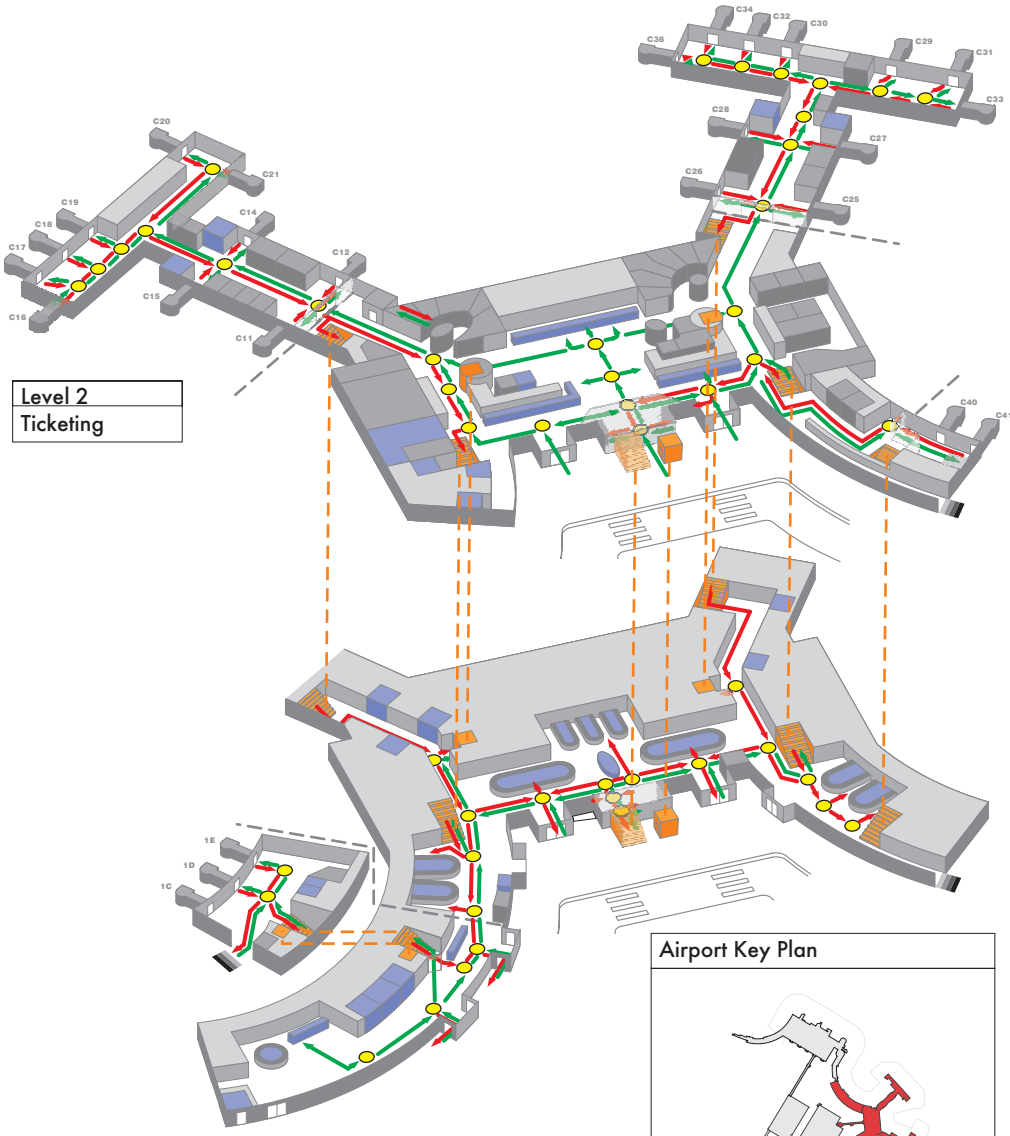
Traffic Flow Key			
Arrival Flow	Departure flow	Vertical Circulation	Decision Point

Terminal B - Circulation Diagram

Figure A-03

#	Revision	Date

Circulation Diagrams



Traffic Flow Key			
Arrival Flow	Departure flow	Vertical Circulation	Decision Point

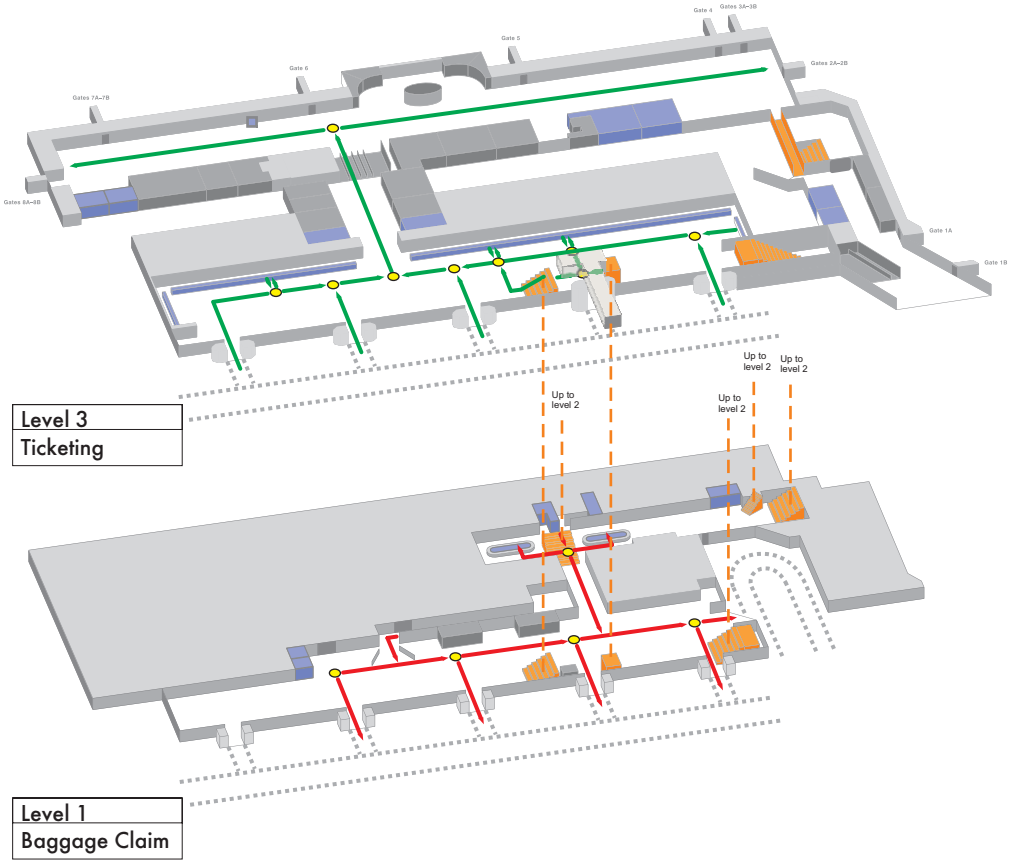
Terminal C - Circulation Diagram

Figure A-04

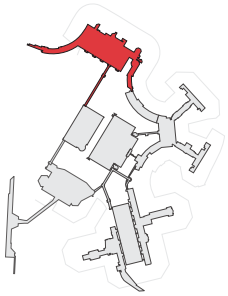
APPENDIX

#	Revision	Date

Circulation Diagrams



Airport Key Plan



Traffic Flow Key			
Arrival Flow	Departure flow	Vertical Circulation	Decision Point

Terminal D - Circulation Diagram

Figure A-05

APPENDIX

#	Revision	Date

1.0 Overview
1.1 Volume 2 : Curbside/Ground Transportation - Overview

2.0 Graphic Standards
2.1 Typography
2.2 Terminology/Symbology
2.3 Message Hierarchy
2.4 Arrow Standards
2.5 Color Standards

3.0 Sign Types - Curbside (200 Series)
3.1 Identification System
3.2 Grid Layouts
3.3 Mounting Requirements
3.4 Sign Type Index
3.5 Sign Type - Layouts
3.5.1 Directional Signs
3.5.2 Identification Signs
3.5.3 Informational Signs

Appendix
A.1 Signage Program Overview
A.2 Circulation Diagrams

#	Revision	Date

Purpose and Scope 1.1.1

The purpose of this volume of the Signage Standards and Guidelines is to outline general criteria for the design and/or fabrication of signage within the curbside and ground transportation of Boston-Logan International Airport (BOS). This is intended to meet the particular needs of the curbside area while maintaining overall design cohesion with the signage system airport-wide.

Adherence to the standards of this document and official Massachusetts Port Authority (Massport) policies and procedures will ensure consistency throughout the signage system at BOS.

Signs Regulated by this document include:

- All interior directional, identification, and informational signs for public visitors throughout the curbside area within the airport property, including:
  - Curbside
    - Departures level (upper)
    - Arrivals level (lower)
  - Ground Transportation
    - Departures level (upper)
    - Arrivals level (lower)

Signs NOT Regulated by this document include:

- Terminal(s) (see Volume 1)
- Parking (see Volume 3)
- Roadways (see Volume 4)
- Cargo and support facilities
- Vehicular pavement markings
- Vehicular regulatory
- Rental car facilities
- Non-public areas

#	Revision	Date

Purpose and Scope cont'd. 1.1.1

This volume is organized in four main sections: Overview, Graphic Standards, Sign Types, and Appendix.

- **Overview** - includes an overall explanation of the signage program as well as the purpose and scope of the volume.

- **Graphic Standards** - includes general specifications applicable to all sign types, which include:
  - TYPOGRAPHY - application and standardization for all typography used on directional, informational, and identification signage.
  - TERMINOLOGY - includes all terminology that shall be used throughout the curbside and ground transportation areas.
  - SYMBOLOGY - includes all symbology that shall be used throughout the terminals, its application, restrictions and its corresponding terms.
  - MESSAGE HIERARCHY - includes message hierarchy for each category organized by sign types. Those categories are: Primary Messages, Secondary Messages and Tertiary Messages.
  - ARROW STANDARDS - includes arrow sizes, application on directional signage, orientations and placement.
  - COLOR STANDARDS - listing of all colors, paint equivalents, and transparency/ opaque vinyl specifications that shall be allowed through the terminal areas.

- **Sign Types** - specific sign layout information and application guidelines:
  - IDENTIFICATION SYSTEM - includes all the sign type series numbering and specific break down for the sign type numbering within each series.
  - GRID LAYOUTS - includes the grid sizes used to determine the sign types sizes.
  - MOUNTING REQUIREMENTS - descriptions of all the mounting styles that shall be used in the terminal areas are given. Specific application or special circumstances are delineated.
  - SIGN TYPE INDEX - sign descriptions and specifications referencing sign layouts and details.
  - SIGN TYPE LAYOUTS - includes sign face layouts, elevations and mounting descriptions.

- **Appendix** - may include forms, graphics, and/ or supplemental information relevant to this specific volume. It also includes circulation diagrams for the curbside areas of all terminals.

#	Revision	Date

Governing Codes and Standards 1.1.2

Governing codes, city ordinances and standards affecting the Boston Logan International Airport (BOS) signing and graphics system are outlined below. The following list of requirements have been compiled from the various governing codes affecting Boston-Logan International Airport. This list is not to be assumed as a complete list of requirements. If there is a conflict between a requirement listed below and another authoritative code or standard, the more stringent one shall be applied. This section is for reference only, and it is the designer's responsibility to meet all current applicable codes or regulations.

General Regulation Requirements

- In all rooms or areas where smoking is prohibited, plainly visible "NO SMOKING" signs (using either the verbiage or symbol, or both) shall be posted.
- Elements and space of accessible facilities which shall be identified by the International Symbol of Accessibility are:
    - Parking spaces designated as reserved for individuals with disabilities
    - Accessible passenger loading zones
    - Accessible entrances when not all are accessible (inaccessible entrances shall have directional signs indicating the route to the nearest accessible entrance)
    - Accessible toilets, when not all toilets are accessible
- An eggshell finish (11 to 19 degree gloss on 60 degree gloss meter) on sign faces is recommended.
- Illumination levels on sign surfaces shall be in the 100 to 300 lux range (10 to 30 foot candles) on interior signs, and shall be uniform over the sign surface. Signs shall be located such that the illumination level on the surface of the sign is not significantly exceeded by the ambient light or visible bright lighting source behind or in front of the sign.
- Characters and numbers on signs shall be sized according to the viewing distance from which they are to be read. The minimum height is measured using an upper case X. Lower case characters are permitted unless noted otherwise.
- For Braille signs the letters and numbers shall be raised 1/32" minimum, upper case, san-serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8", but no higher that 2". Pictograms shall be accompanied by the equivalent verbal description placed below the pictogram. The border dimension of the pictogram shall be 6"minimum in height.
- Each door to an exit stairway shall have tactile signing that states EXIT and complies with ANSI.

#	Revision	Date

Governing Codes and Standards cont'd. 1.1.2

AAAE	American Association of Airport Executives
AASHTO	American Association of State Highway and Transportation Officials
ACC	Airport Consultants Council
AIGA	American Institute of Graphic Arts
ANSI	American Nationals Standards Institute
ASTM	American Society for Testing and Materials
ATA	Air Transport Association of America
AWI	Architectural Woodwork Institute
CAA	Civil Aeronautics Administration
CAB	Civil Aeronautics Board
CABO	Council of American Building Officials
CSI	Constructions Specifications Institute
FAA	Federal Aviation Administration
FHA	Federal Highway Administration
IATA	International Air Transport Association
NEMA	National Electric Manufacturers Association
NFPA	National Fire Protection Association
MHD	Massachusetts Highway Department

Governing Bodies and Authoritative Organizations

Figure 1.1.1

ADA	American with Disabilities Act
ANSI	American National Standards Institute, Inc.
LSC	Life Safety Code (written by NFPA)
MBC	Massachusetts Building Code
MUTCD	Manual of Uniform Traffic Control Devices
NEC	National Electrical Code (written by NFPA)
SPC	Standard Plumbing Code (written by NFPA)
SBCCI	Standard Building Code
UBC	Uniform Building Code

Codes and Regulations

Figure 1.1.2

#	Revision	Date

Design Criteria 1.1.3

The design criteria for Boston Logan International Airport (BOS) is organized into sections which outline the procedures and requirements for development of a successful signage system to guide visitors through the airport facilities. These principles for design are intended to inform and instruct in properly establishing the signage standards and guidelines for curbside / ground transportation at BOS. This part of the document should be used as a basis for and supplement to the graphic standards to create a uniform and cohesive signing and graphics system for Boston Logan International Airport.

In development of the signage design for BOS, the following list of design requirements/ criteria should be applied to all the sign types:

- Methodology
- Nomenclature
- Wayfinding Factors Process
- Consistent Sign Placement
- Consistent Legibility

Methodology:
To comprehensively program the airport wayfinding, an in-depth analysis of the facilities and circulation shall be conducted, and Wayfinding methodology also shall be established which CB has already included in these guidelines. All major airport facilities should be reviewed in a holistic approach to ensure wayfinding consistency throughout. The methodology shall begin with this review:

- All airport facilities plans (plans and elevations)
- Space functions
- Circulation paths
- Peak load circulation
- Established Nomenclature and Terminology
- Established Message Hierarchy
- Vertical and horizontal circulation
- Primary destinations
- Physical complications
- Connecting passengers verses Origin & Destination

NOMENCLATURE AND TERMINOLOGY:
The first issue that shall be taken into account is the Nomenclature and Terminology is established in this document. Terminology identifying airport functions and space shall be standardized and established*(See section 2.2 in Graphic Standards)*.

MESSAGE HIERARCHY:
Hierarchy of messages exist for primary, secondary, and tertiary messaging. Ranking was based on routing or destination priorities and site, or space specific direction(s). The message hierarchy established in this document shall be used to develop message schedules for future signage *(See section 2.3 in Graphic Standards)*.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Methodology cont'd:

GRAPHIC STANDARDS:
The Graphic Standards section of this document shall be used as established in this document for the design of future signage *(See section 2.0 Graphic Standards)*. Included in the graphic standards would be documentation of:

- Font type, size relationships, kerning, spacing, etc.
- Symbols
- Arrows, types and relationships
- Language relationships and ranking
- Clear space
- Graphic element spacing
- Color, color coding
- Branded colors if applicable
- General materials consideration

SIGN TYPES:
The sign type family is the catalog of all directional, identification and informational signage applications. It functions as a tool for programming signs and allows for a much more effective process *(See section 3.0 Sign Types)*. This section includes primary and secondary sign types for:

- DIRECTIONAL SIGNS - Signage designed to facilitate circulation to and/ or from a specific destination within the airport complex.
- IDENTIFICATION SIGNS - Signage designed for identification of specific areas or spaces within the airport complex.

INFORMATIONAL SIGNS - Signs or displays designed to convey airport information and services. Directories of floor plans, levels, airport sevrices, airlines, gates information, etc.

Future signage shall be designed based on the sign types included in the Section 3.0 of this document. Information regarding acceptable sign sizes and mounting requirements is also included.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Nomenclature

Curbside:

In an effort to simplify information in digestible segments for the traveling public, a door numbering system in the Terminals will be implemented at the Airport. Each set of doors in the Terminals will be identified with a three digit number and a color corresponding to the Terminal where the door is located (See ST-256 in Section 3.5 for sign layout). The first digit will indicate the Terminal and Curbside level and the second two numbers will denote the door number as shown below.

(**2**: Level 2 - Departures, **1**: Level 1 - Arrivals)

For example, the door ID signs in Terminal B will be red to match the PMS red that identifies Terminal B. Each door ID sign will be used both internally and externally in the Terminals so that a consistent system is used from the Curbside to the Terminals and vice versa from the Terminals to the Curbside. (See Figures 1.1.3-1.1.8) See Figure 1.1.3.



Door Identification

Figure 1.1.3

This numbering system was approved by Massport to designate the Terminals' doors only. A numbering or lettering system was not approved to designate multiple lanes within the same Curbside. Vehicular traffic will be divided from the Roadways by overhead directional signage (ST-214 - ST-219). In these directional signs, the Ground Transportation functions that occur in each lane will be listed. See Figure 1.1.4 below. The relationship between Ground Transportation function and the door number system at the terminal is described on the next page.



ST-214 Overhead Directional

Figure 1.1.4

#	Revision	Date

Design Criteria cont'd. 1.1.3

Nomenclature, cont'd.

Ground Transportation:

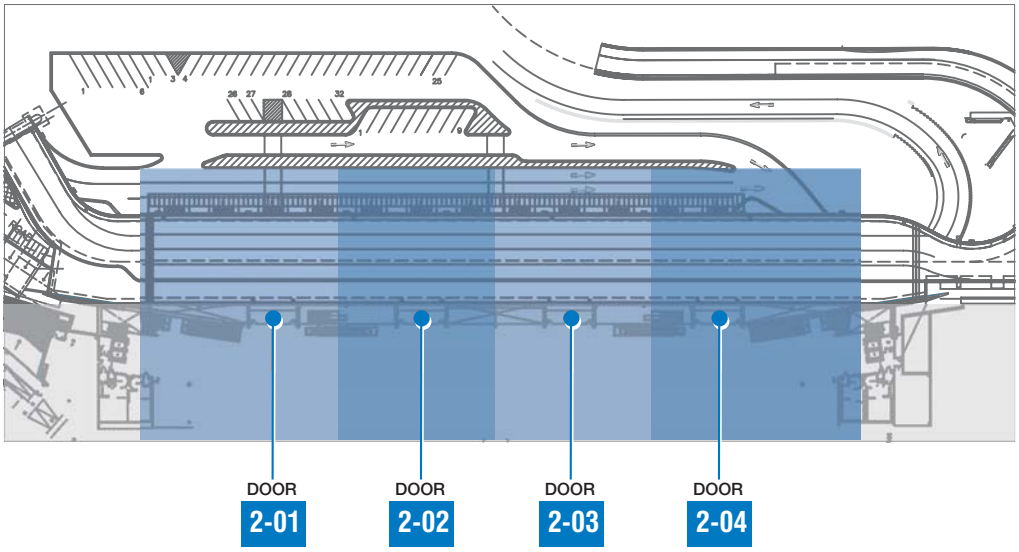
At the time of the submittal of this document the Ground Transportation system at Boston-Logan International Airport (BOS) included services such as Airport Shuttles, Rental Car Shuttles, Hotel Shuttles, Taxis, Shared Vans, Scheduled Buses, and others. (See Section 2.3.2 for a complete list of Ground Transportation functions.) Due to the variation of the Ground Transportation functions and their locations at each Curbside throughout the Airport the implementation of a numbering and or lettering system to identify each function would require a rearrangement of the entire current Ground Transportation system. (See Figures 1.1.5-1.1.12)

Therefore, in order to simplify information for the passengers, the Ground Transportation (G.T.) at BOS will be tied to the door numbering system used at the Curbside. A Ground Transportation ID sign (See ST-257 in Section 3.5 for sign type layouts) will be placed at each door inside the Terminal listing the G.T. functions that are in proximity of that door regardless of the number of lanes that each Curbside has. This system provides a simplified way of directing travelers to G.T. functions, at the same time as being flexible enough to accommodate to the needs of the existing G.T. operation system. (See ST-257 in Section 3.5 for sign type layouts.)

These Ground Transportation ID signs will carry the color of the Terminal in which they are located. The color-coded system used to identify each G.T. function that is being used at BOS will be removed from future signage from the time of the submittal of this document.

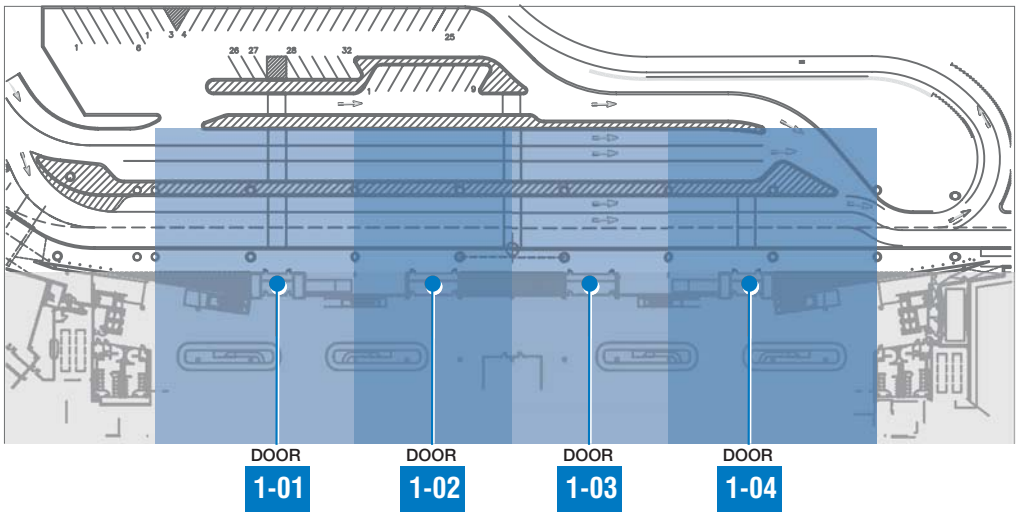
#	Revision	Date

Design Criteria con't. 1.1.3



Boston Logan International Airport - Terminal A Departures

Figure 1.1.5

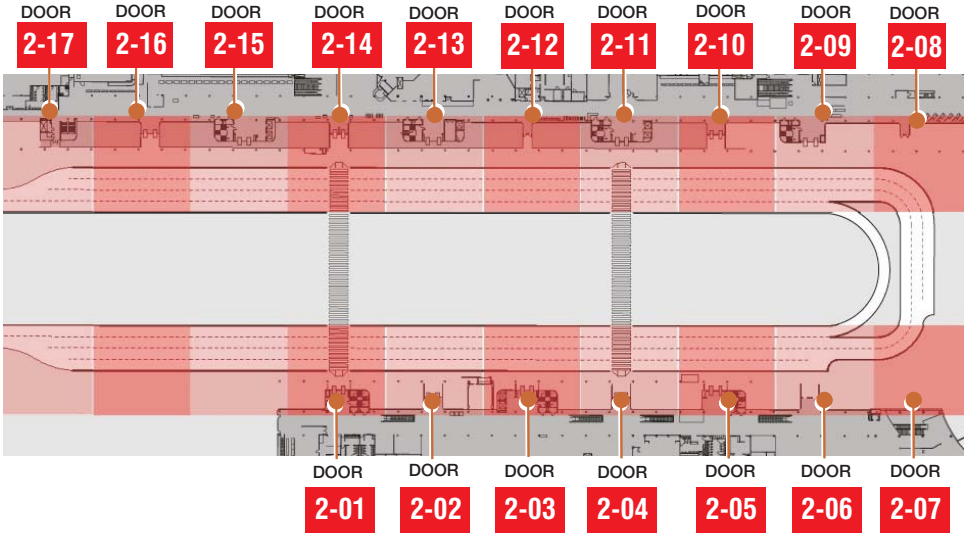


Boston Logan International Airport - Terminal A Arrivals

Figure 1.1.6

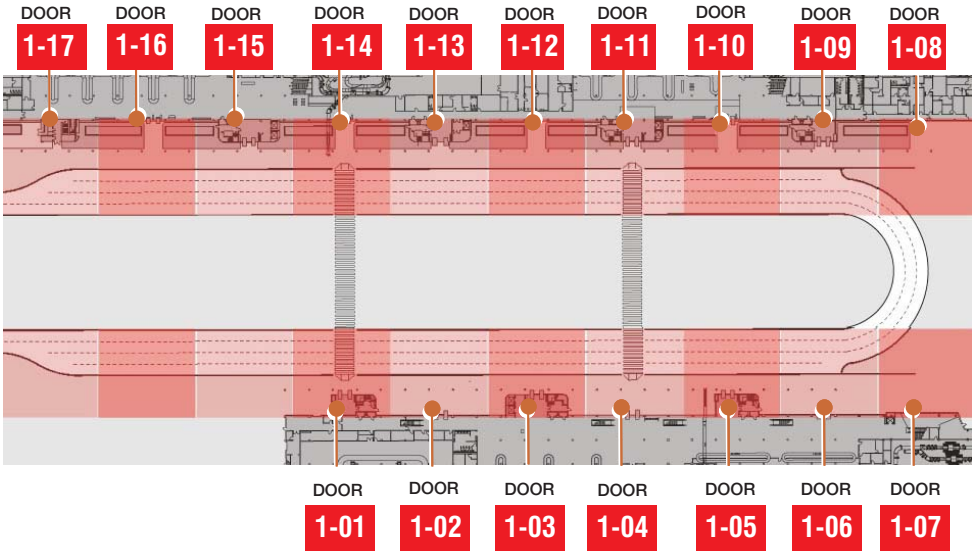
#	Revision	Date

Design Criteria con't. 1.1.3



Boston Logan International Airport - Terminal B Departures

Figure 1.1.7

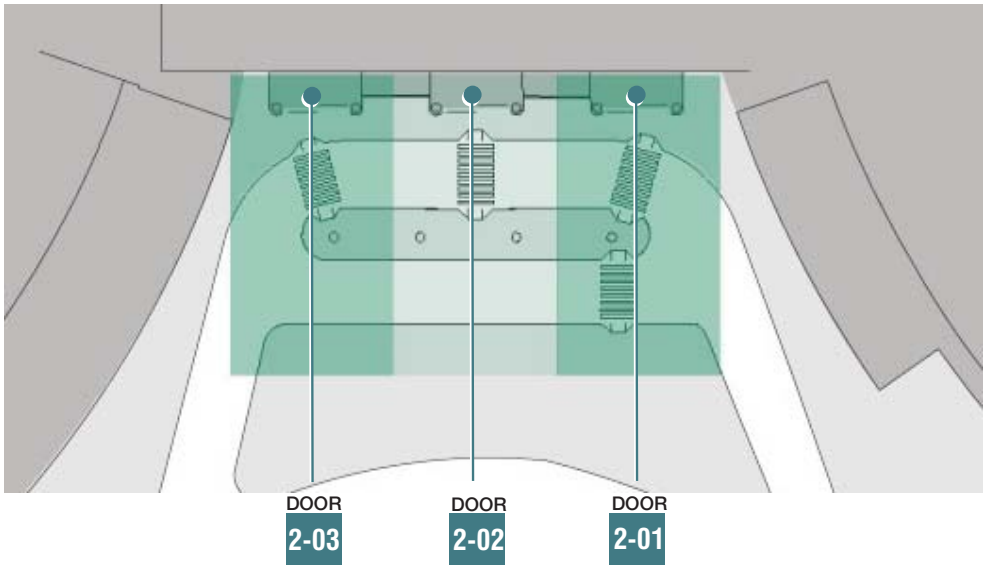


Boston Logan International Airport - Terminal B Arrivals

Figure 1.1.8

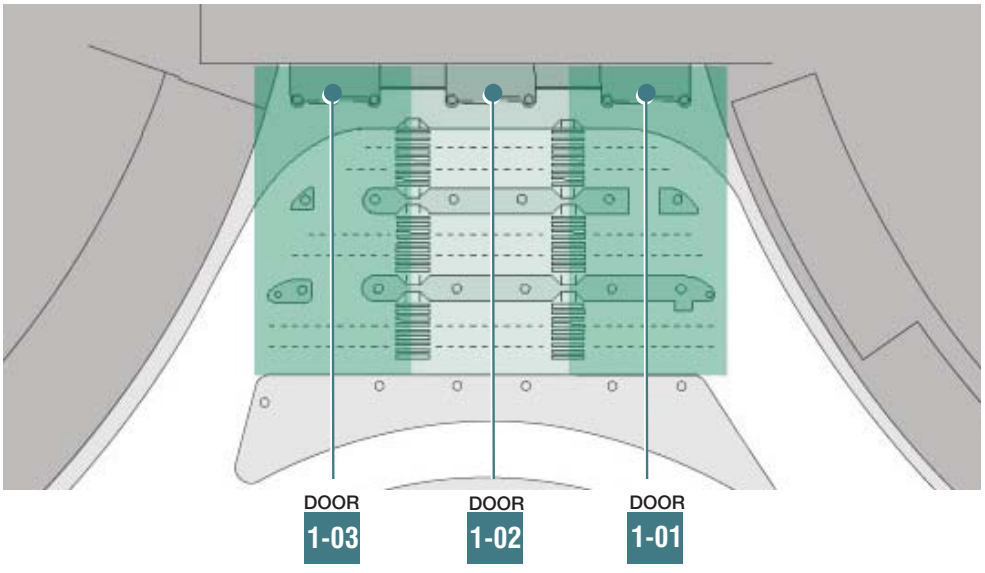
#	Revision	Date

Design Criteria con't. 1.1.3



Boston Logan International Airport - Terminal C Departures

Figure 1.1.9

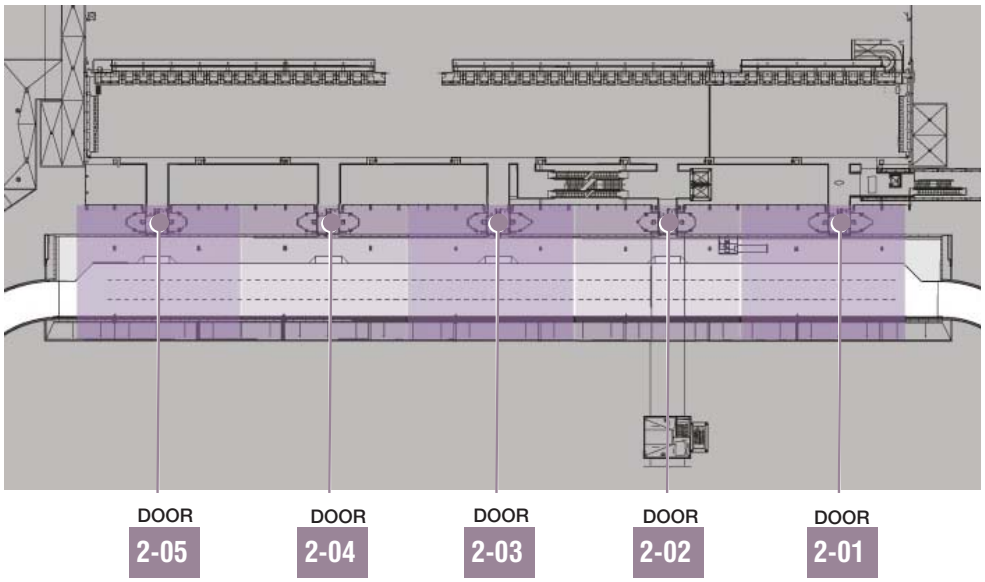


Boston Logan International Airport - Terminal C Arrivals

Figure 1.1.10

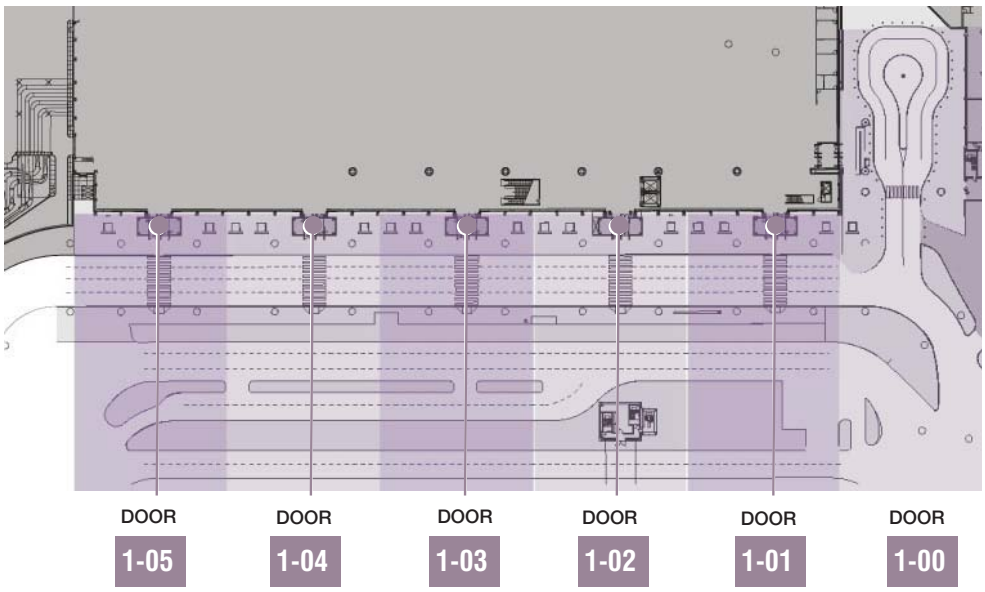
#	Revision	Date

Design Criteria con't. 1.1.3



Boston Logan International Airport - Terminal D Departures

Figure 1.1.11



Boston Logan International Airport - Terminal D Arrivals

Figure 1.1.12

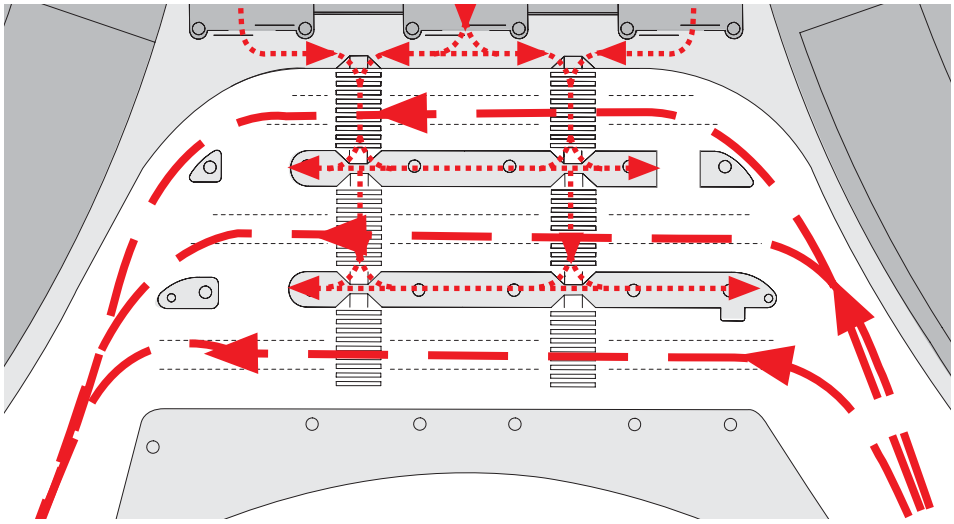
#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors:
The ability to orient and navigate through the various airport environments is fundamentally important. Wayfinding brings into play the analysis of spatial relationships and circulation studies.

CIRCULATION ANALYSIS:
Incoming and Outgoing (or Enplaning and Deplaning) circulation for major user groups shall be charted by the designer of the sign system. Points of origin and destination will be referenced as the basis for identifying critical decision points and information requirements.

Primary vehicle circulation routes are depicted as solid lined arrows and the dotted lined arrows depict pedestrian circulation routes.



Circulation Flow - Example taken from Curbside Terminal C - Level 1

Figure 1.1.13

Note: Refer to Appendix for complete information on circulation diagrams for all Curbside areas.

#	Revision	Date

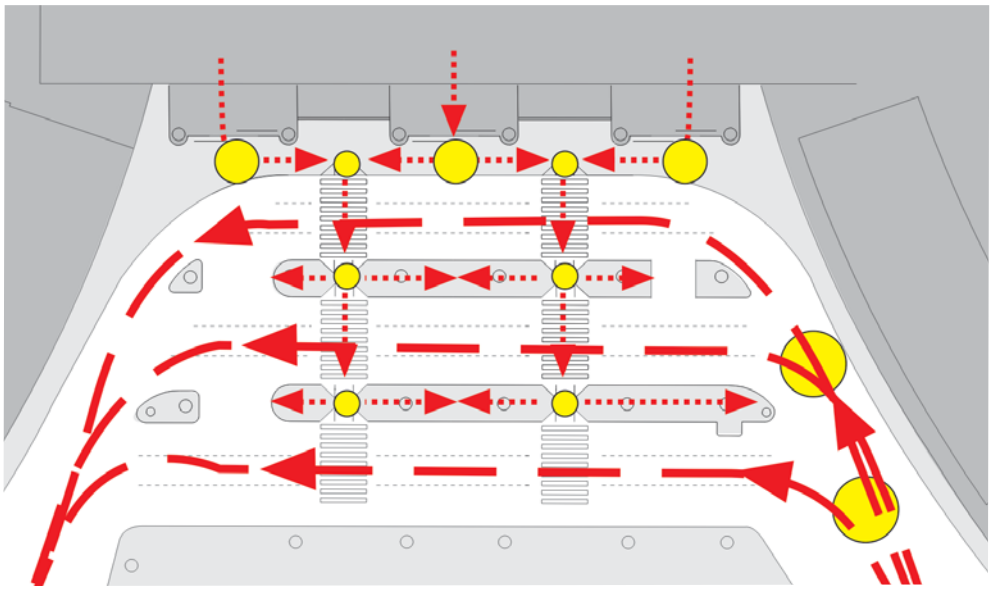
Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

IDENTIFICATION OF DECISION POINTS:
Decision points along user circulation routes shall be located at required direction changes and points where the user encounters alternative choices.

Examples of decision point locations within the existing complex are shown as yellow circles at primary and secondary intersection/directional changing areas. These areas are the most optimal location for placing directional signs that inform the viewer of the existing alternative pathways.

DETERMINING REQUIRED INFORMATION AT DECISION POINTS:
The type of information required at or preceding each decision point should be determined. In addition, the location of messages identifying destination points should be determined.



Circulation Flow - Example taken from Curbside Terminal C - Level 1

Figure 1.1.14

Note: Refer to Appendix for complete information on circulation diagrams for all Curbside areas. .

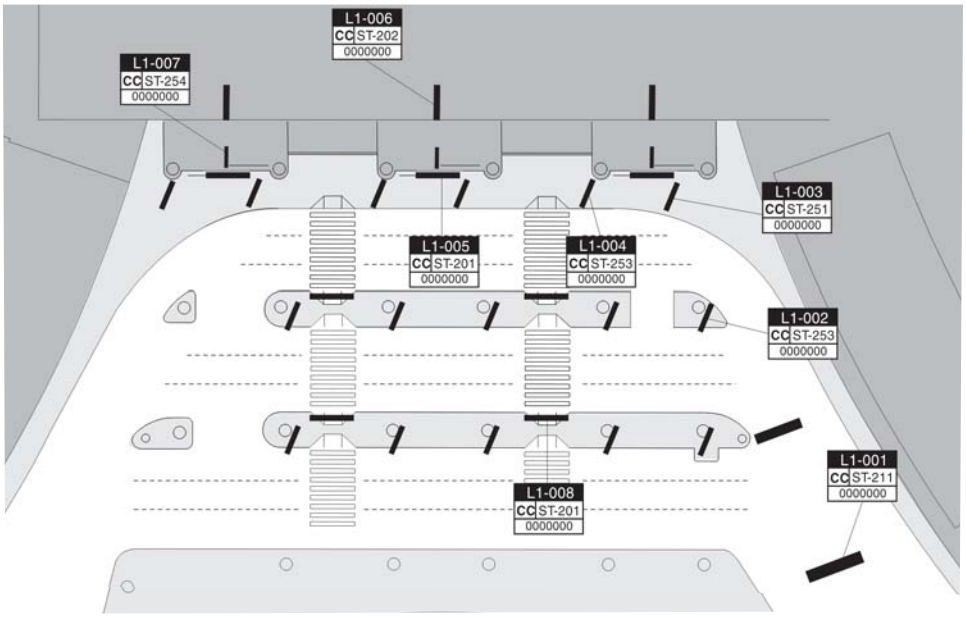
#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

IDENTIFICATION OF SIGN LOCATIONS

Plans, cross sections and elevations of specific terminal spaces shall be analyzed by the designer of the sign system. A final sign location plan should then be determined.

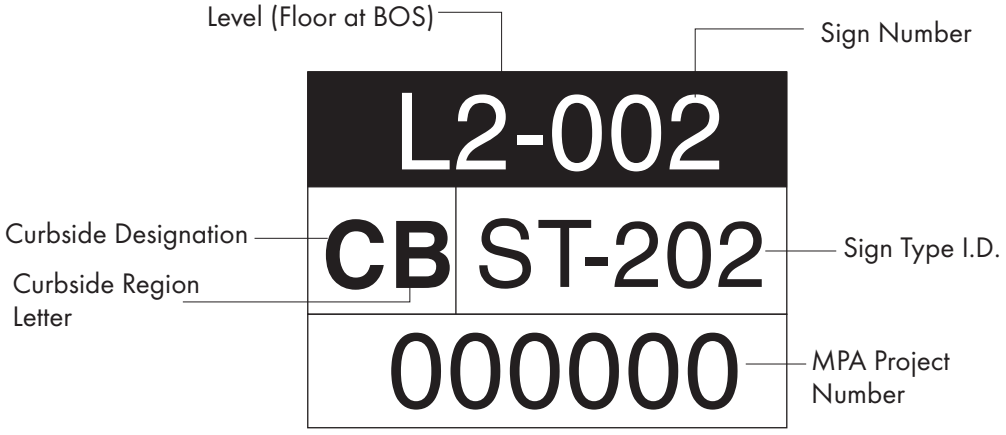


Circulation Flow - Example taken from Curbside Terminal C - Level 1

Figure 1.1.15

SIGN LOCATION INDICATORS

The following system should be used to identify each sign type and its location on the plans. Each sign shall be given a terminal area, a floor level of the airport facility, an identification of its type and a sequential number for the plan. This will assure that a consistent sign location system is used from designer to designer.



Sign Location Indicator Example

Figure 1.1.16

#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

DELIVERABLES:
Upon completion of the steps mentioned before, the designer shall provide the Airport with detailed drawings and information for the following:

- Circulation Analysis
- Identification of Primary and Secondary decisions points
- Detailed locations of each one of the signs to be constructed and implemented
- Signage database using the Sign location indicator system *(See figure 1.1.8)*

These shall be included for each facility within the Airport where signage is being developed for. (Terminals, Curbside, Parking and Roadways).

The documents listed above are a compliment to the deliverables necessary to construct the signs (i.e, Sign layouts, message schedules, mounting specifications, construction specifications, etc...) which shall also be provided by the designer.

A detailed list of submitals shall be agreed on between the Authority and the designer prior to commencement of the project.

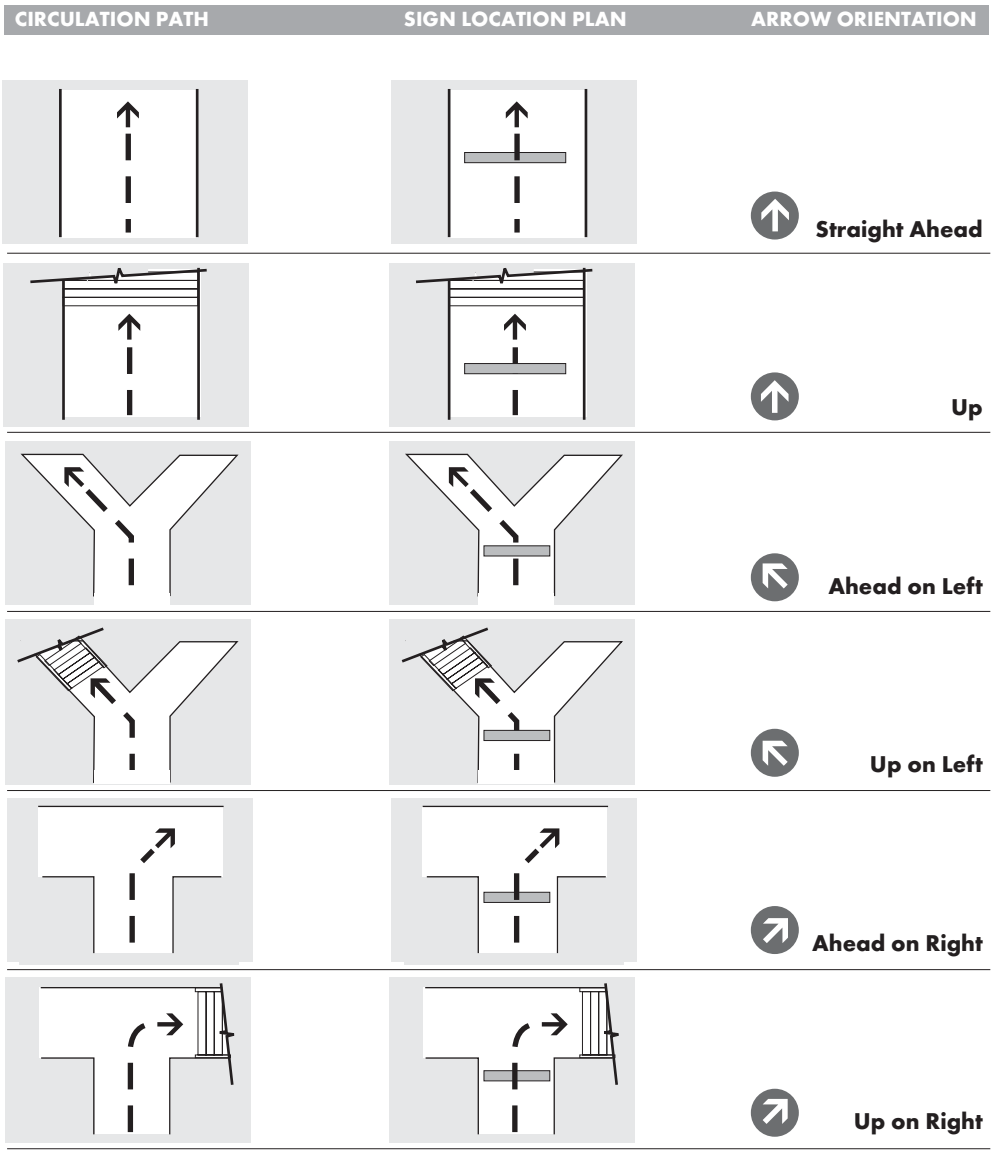
NOTE: This document is intended to be a guideline only. Each designer is expected to complete their due diligence in the design of all signage support structures and related items.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Pedestrian Sign Placement:

Viewer circulation patterns and natural lines of vision are the basis for determining the location of all signs. Signs shall be located to precede decision points to ensure sufficient time for passengers to react to each sign message.



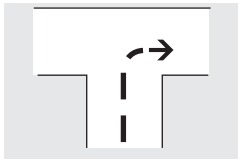
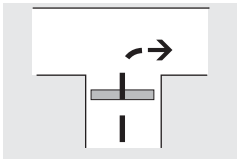
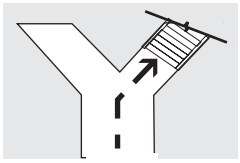
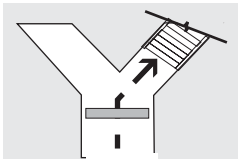
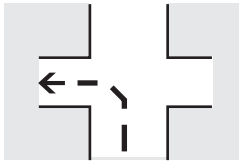
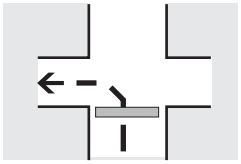
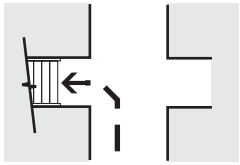
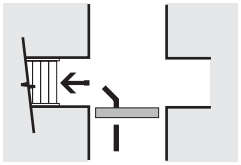
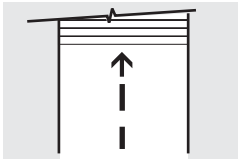
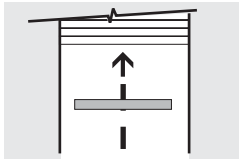
Sign Placement

Figure 1.1.17

#	Revision	Date

Design Criteria cont'd. 1.1.3

Pedestrian Sign Placement cont'd:

CIRCULATION PATH	SIGN LOCATION PLAN	ARROW ORIENTATION
		Right
		Down on Right
		Left
		Down on Left
		Down

Sign Placement (con't)

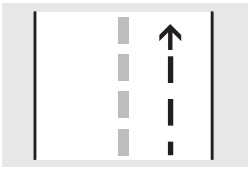
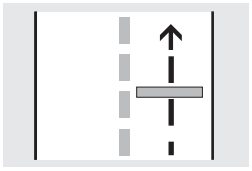
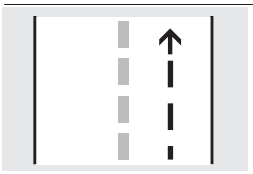
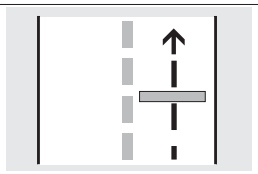
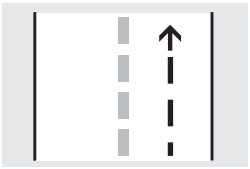
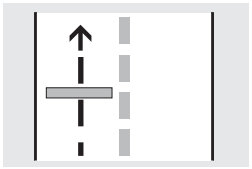
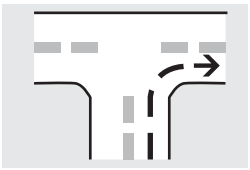
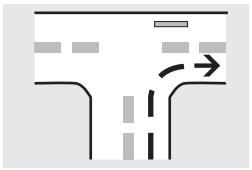
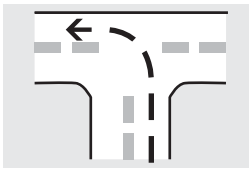
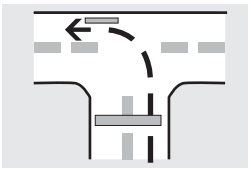
Figure 1.1.17

#	Revision	Date

Design Criteria cont'd. 1.1.3

Vehicular Sign Placement:

Viewer circulation patterns and natural lines of vision are the basis for determining the location of all signs. Signs shall be located to precede decision points to ensure sufficient time for vehicles to react to each sign message.

VEHICULAR CIRCULATION PATH	SIGN LOCATION PLAN	ARROW ORIENTATION
		Straight Ahead
		Straight Ahead on the Right
		Straight Ahead on the Left
		Right
		Left

Sign Placement (con't)

Figure 1.1.18

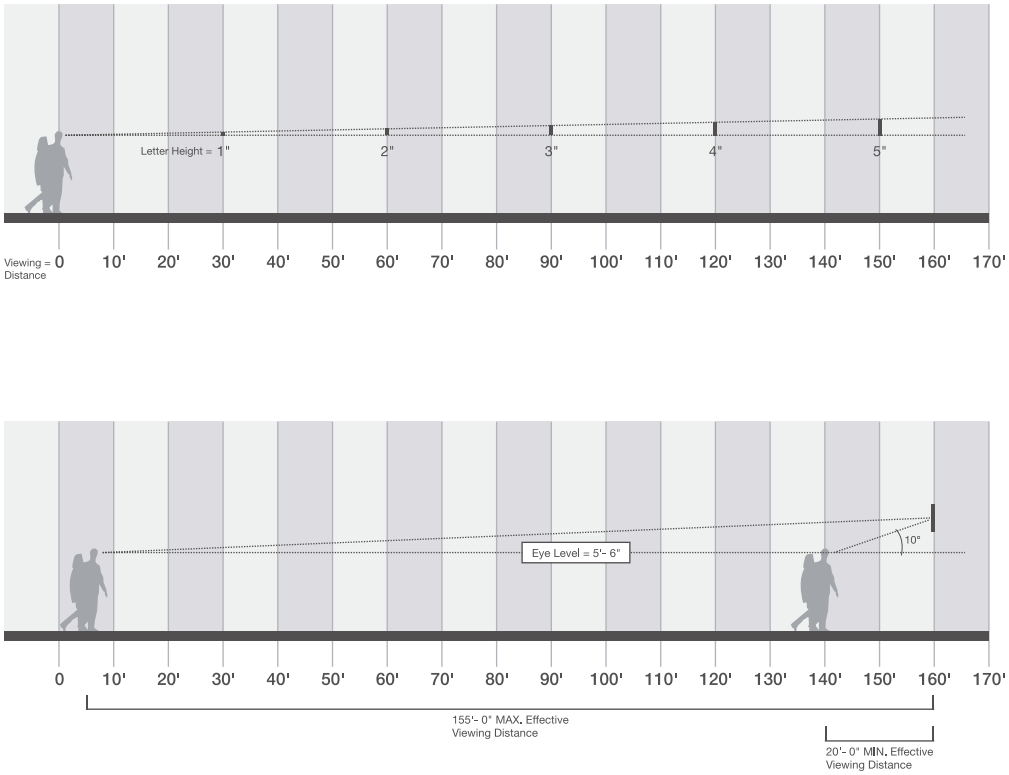
#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility:

Legibility is another important factor within the process of securing an effective signage system. "Legibility" is defined as the recognition of the various elements that make a message or symbol understandable without the aid of additional wording or preconditioning. The following sections set the criteria for legibility related to pedestrian signs. The factors affecting legibility include sign placement, lighting, and color contrast.

It is necessary to have a consistency in placement and presentation of messaging on signs, as well as floor to ceiling height and size of sign. This will minimize the unintended interpretation of the pathways and uses of the facility. The sign location will dictate the range of visibility available for the viewer to interpret the information. If the viewer is given the appropriate distance to comprehend the messages, he/she will be able to make a decision to change direction or stay on the same pathway. It is also necessary to create a consistent size for text and symbols throughout the facility. This will create a repetitive display of information which, in turn, will make interpretation and comprehension easier. *(See Figure 1.1.19 for viewing distances)*



Viewing Distances

Figure 1.1.19

#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility cont'd:

The following criteria and principles shall be applied to the design of traffic signs to convey messages adequately to the driver:

- Signs shall be easy to detect or attract the driver's attention. The most important information needed by most drivers, requiring the most immediate decision, shall be emphasized.
- Signs shall be legible under all conditions including day, night and inclement weather, and when seen at a glance. Simple verbal messages and symbols are more legible than complex ones.
- The message shall be clearly presented, with no sources of misinterpretation and ambiguity. The message shall not depend on a high order of logical deduction for its comprehension.
- The design of the sign shall be such that the information can be quickly rejected by those drivers not needing it.
- Legend and location shall conform to the drivers expectation based on pre-trip planning or previously obtained information, signs seen earlier, and subjective evaluation of the driving situation.
- Each type of information shall be ranked for its importance to the driver and this hierarchy shall be expressed in the use of color, size, shape, message from and in rules governing location.
- The system shall prepare the driver in advance for turning decisions and upcoming road and traffic conditions. Sign location shall allow adequate time to act on the information.
- Information requiring different types of action by the driver shall be conveyed differently.
- Signs shall be installed only where the information is needed. Overuse of signs results in mistrust.
- The use of all codes and forms of message content shall be uniform throughout the system.

.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility cont'd:

An item of information is defined as being a symbol, word, syllable or discontinuous shape. As a maximum, no more than six items of information shall be used to direct a driver in finding what he or she is seeking. No more than ten items of information shall be communicated from a property to an adjacent right-of-way by any one sign.

Field tests indicate that the reaction time allowing for a driver to see a sign, read it, and respond, shall be related to the number of lanes as follows.

2 lane road	8 seconds
4 lane road	10 seconds
6 lane road	11 seconds
Freeway	12 seconds

VEHICULAR LEGIBILITY ANALYSIS

Number of Lanes	Speed (MPH)	Reaction Time (Seconds)	Distance Traveled During Reaction (Feet)	Letter Height (Inches)	Total Areas Of Sign (Sq. Ft.) Commercial Industrial	Total Areas Of Sign (Sq. Ft.) Institutional Residential Agricultural
2	15	8	176	4.5	8	6
	30		352	7	25	18
	45		528	10	50	36
	55		704	14	100	70
4	15	10	220	4	8	6
	30		440	9	40	28
	45		660	13	90	64
	55		880	17	150	106
6	15	11	242	5	13	10
	30		484	9	140	28
	45		726	14	100	70
	55		968	19	190	134
Freeway	55	12	1056	21	230	162

Vehicular Legibility Analysis

Figure 1.1.20

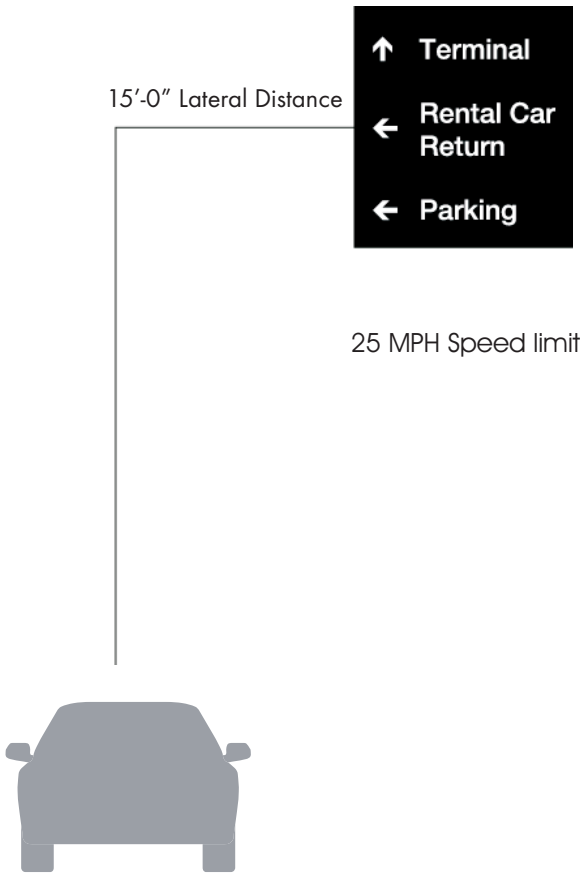
#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility cont'd:

Minimum viewing distance shall be affected by horizontal and vertical viewing angles. It is recommended that advance guide (directional) signs be spaced at least 800 feet apart, however that distance shall be lowered to 650 feet as speeds are reduced.

The legibility formula for determining letter height on roadway signs is as follows:



Exterior signs reference:

$$H=\frac{(N+6)V}{100}+\frac{S}{10}$$

H=Height of letters in inches
N=Number of Messages
V=Vehicle Speed in miles per hour
S=Lateral Distance from driver's path

Example: If a vehicle is traveling 25 MPH and the sign is 15'-0" From the driver's path, the letter height On the sign shall be calculated Using the same following formula:

$$H=\frac{(6+6)\ 25\ (MPH)}{100}+\frac{15\ (Lateral\ Distance)}{10}$$

$$H=3+1.5$$

$$H=4.5\ Inches$$

Vehicular Legibility Formula

Figure 1.1.21

#	Revision	Date

Change Procedures / Sign Replacement 1.1.4

Scope and Process for Signage Review

The following explains the scope and process for signage review.* TAA sign types are not goverened by the Guidelines and therefore should not fall under the review process. Aviation Projects, Operational Signage and Communications Projects may or may not need to comply with the Guidelines depending on project goals.

Signage projects should be addressed within the following contexts: Tenant Alteration Applications; Aviation Projects; Communication Projects; Operational Requirements and Capital Projects; the processes for developing Signage scope and design are described below.

Tenant Alteration Application: For a TAA Aviation Administration and Development's projects, the TAA Project Manager is the lead. The TAA Project Manager coordinates with the Manager of Aviation Signage at the inception of each project (whether large or small) to determine if the project will require signage. In some cases the Project will be required to develop a Signage Plan, in other cases Aviation Signage would provide the needed signage. The approach would be case by case.

Aviation Projects: Aviation Projects are lead by various staff within Aviation. The Project Manager meets with the Manager of Aviation Signage and all other stake holders at the inception of each project (whether large or small) to determine if the project will require signage. The Aviation Signage Manager works with stake holders and Project Manager to determine with signage is required and the best methodology for fabrication and whether to do work in-house or use outside vendors.

Communication Projects: For Communications Projects, various staff within Aviation and Communication takes the lead. The Aviation/Communications Team meets with the Manager of Aviation Signage and all other stake holders at the inception of each project (whether large or small) to determine if the project will require signage. The Aviation Signage Manager works with the stake holders and Team to determine what signage is required and the best methodology for fabrication and whether to do the work in-house or use outside vendors. Communications is responsible to provide design.

Operations Requirements: Operational Requirements include Parking, Ground Transportation, Security, Airline Changes, and the Airport Directory System. Aviation Signage Manager is the lead and is responsible for scope, design, fabrication, and installation.

Capital Projects: In a Capital Project, the lead person is the Project Manager. The Project Manager should meet with the Manager of Aviation Signage at the inception of each project (whether large or small) to determine if the project will require signage. In some cases the Project Manager will be required to develop a Signage Plan in other cases Aviation Signage would provide the needed signage. The approach would be case by case.

Provided by Massport on December 17, 2004.

#	Revision	Date

Change Procedures / Sign Replacement* 1.1.4

PHASE 1	Review Tasks	Details		Detail Tasks
Review by: Aviation Admin and Develop. Capital Programs Communications	Does Project Require Signage? If yes, what types?	Permanent	Scope	Wayfinding Location Identification Regulatory/Informational
		Temporary	Scope	Construction Signage Wayfinding
		Marketing/Communications	Scope	Roll Out
	How will signage be funded?	By Project? By Aviation Signage? By Communications?	Scope	Funding
	Does Project drive Signage Changes outside of Project Limits?		Scope	Wayfinding Location Identification Regulatory/Informational
	If so, how will signage be funded?	By Project? By Aviation Signage?	Costs	Funding Funding
	Assignment of Signage Tasks	Project Manager Designer Fabricator		

PHASE 2	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Circulation Diagrams	Arriving	Horizontal Vertical
		Departures	Horizontal Vertical
	Identify Critical Intersections		
	Develop Wayfinding Path Requirements		

PHASE 3	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Draft Sign Matrix	Sign Number Sign Type Sign Message	
	Draft Sign Location Plan		

PHASE 4	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Refine Sign Matrix	Sign Number Sign Type Sign Message	
	Refine Sign Location Plan		
	Design Sign Face Layouts		

Change Procedure / Sign Replacement

Figure 1.1.22

#	Revision	Date

All signage typography issues having to do with text size, fonts, capitalization, word spacing, letter spacing, and line spacing are discussed in this section of the document.

Acceptable Type Styles 2.1.1

All text on directional signs shall be set in Swiss 721 BT, unless otherwise specified.

Accepted specialized type styles used for identification and informational sign types are defined in the Specialized Type Style portion of this document *(See section 2.1.5)*.

Capitalization 2.1.2

Aside from special decorative uses and certain regulatory signs, all sign word messages shall be in initial uppercase followed by lowercase. Examples of exceptions:

EXIT
DO NOT ENTER
ATM
LEFT TURN ONLY
RIGHT TURN ONLY

- As required by the Americans with Disabilities Act, all tactile messages should be all upper case.
- For better legibility, lower case letters should have a lowercase "x" height that should be two-thirds the height of the uppercase letter.
- All words should be capitalized except for articles, prepositions and conjunctions.
- A consistent capital letter height will be maintained when signs are used in sequence.

Restrictions 2.1.3

Typefaces or weights not described above should not be used. Modification of letter shapes is prohibited unless specified in the graphic standards or on the sign type layout.

Condensed, extended, slanted, outlined or otherwise distorted type should not be used.

Language to this effect should be included in the specifications for all additional airport sign projects.

#	Revision	Date

Type Style Application 2.1.4

The font used for all directional text messages on curbside signs are to be a consistent version of Swiss. For all curbside signs, text should appear as equal weight using the established hierarchy of fonts of Swiss. Swiss 721 BT Bold shall be the established font for all text used on directional sign types, except for text used for all terminal identification (ID) symbols and push through letters that identify the terminals in the Curbside.

Specialized type style shall be used exactly as specified on each sign type layout. Do not vary from the sign type application provided in the layout *(Refer to each respective sign type for the exact specifications)*.

Note: Type face size shall be regulated depending on sign type.

Swiss 721 BT Bold Type Face Sizes
Swiss 721 BT Bold shall be used at the cap height specified for each sign type in Section 3.5 (Sign Types-Layouts).

ABCDEFGHIJKLMN
OPQURSTUVWXYZ
abcdefghijklmnopqu
rstuvwxyz12345678
90!@#$%^&*()/?””,.

Swiss 721 BT Bold Type Face

Figure 2.1.1

#	Revision	Date

Type Style Application cont'd. 2.1.4

Swiss 721 BT Black Condensed Type Face

The specialized font "Swiss 721 BT Black Condensed" shall be used in the areas outlined as followed. Swiss 721 BT Black Condensed should be used for headers of existing directories.

ABCDEFGHIJKLMNOPQ
URSTUVWXYZ
abcdefghijklmnopqurs
tuvwxyz1234567890!
@#$% ^ &*()/?"",.

Swiss 721 BT Black Condensed Type Face

Figure 2.1.2

Specialized Type Style 2.1.5

Swiss 721 BT Black Type Face

The specialized font "Swiss 721 BT Black" shall be used in the areas outlined as followed. Swiss 721 BT Black should be used for letters of all terminal ID symbols.



Swiss 721 BT Black Type Face

Figure 2.1.3

#	Revision	Date

Letter Spacing 2.1.6

Unless otherwise indicated, all sign messages shall follow an approximate 5% kerning inside and 10% outside. In some circumstances, modification of spacing between individual letter pairs may improve the appearance of the sign message. Samples of messages are required for all sign projects for review; and spacing recommendation shall be made where they can be shown to be advantageous. In these instances, hand-kerning may be required on internally illuminated signs to prevent "halation." Reducing normal letter or word spacing (e.g. to fit a lengthy message within a restricted area) shall be prohibited. Letter spacing should match the following:



Letter Spacing Comparison

Figure 2.1.4

#	Revision	Date

Word Spacing 2.1.7

Word spacing between related words is normally ¾ (.75) times the cap letter height. For example, a message using 3" cap letters will have 2 1/4" between words *(See Figure 2.1.5)*.



Word Spacing

Figure 2.1.5

Line Spacing 2.1.8

Line spacing shall be ½ (.50) times the cap letter height for words of a related message line. Spacing between unrelated message lines shall typically be 1 times the cap letter height *(See Figure 2.1.6)*.



Line Spacing

Figure 2.1.6

2.0 GRAPHIC STANDARDS

#	Revision	Date

The terminology/symbology has been divided into categories based on its function within the airport. These categories are as follows:

A. Principal Airport Nomenclature
B. Fundamental Airport Functions
C. Parking Facilities
D. Transportation Methods
E. Building Circulation
F. Services
G. Safety and Regulation
H. Concessions

Message Terminology 2.2.1

If a term is shown with a corresponding symbol, it shall always appear with its symbol unless otherwise noted.

Change Procedures for Terminology
Requesting changes for terminology shall require the same approval process as found in Large Scale - New Construction

Symbols - Basic Requirements 2.2.2

The symbols shown shall be used to reinforce and provide visual confirmation of sign messages for pedestrians, unless otherwise noted. These symbols were selected from those for the "Guidelines for Airport Signing and Graphics; Terminals and Landside; 'Third Edition'" developed by:

DOT - Department of Transportation
AIGA - American Institute of Graphic Arts
ATA - Air Transport Association of America
AAAE - American Association of Airport Executives
ACI-NA - Airports Council International-North America
ACC - Airport Consultants Council

These symbols are in broad use around the world. They are readily identified by the international traveling public.

Symbol Restrictions
Symbols not described in this section or not shown on the following pages shall not be used. New or customized symbols not described in this manual shall not be developed for use at BOS, unless authorized by the Massachusetts Port Authority.

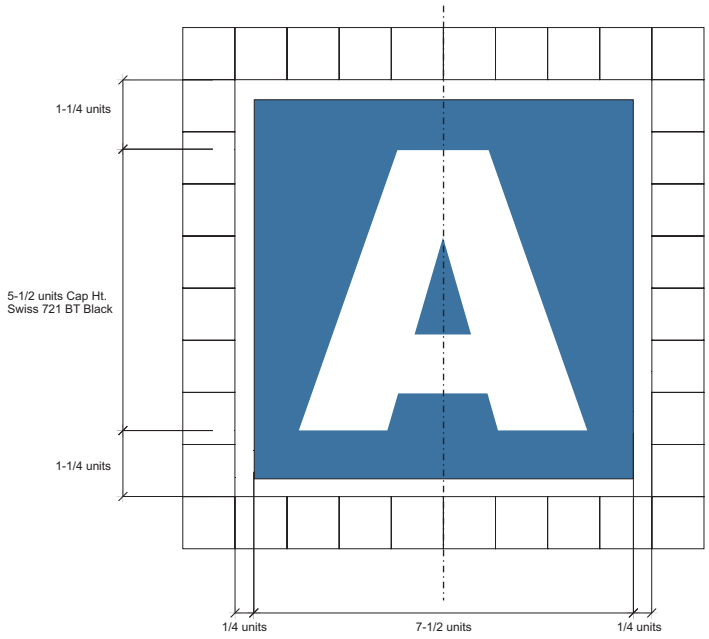
Regulatory Symbols
Symbol shape, placement and color on all vehicular regulatory signs shall conform to the Manual on Uniform Traffic Control Devices (MUTCD).

Change Procedures for Symbols
Requesting changes for symbology shall require the same approval process as found in Large Scale - New Construction.

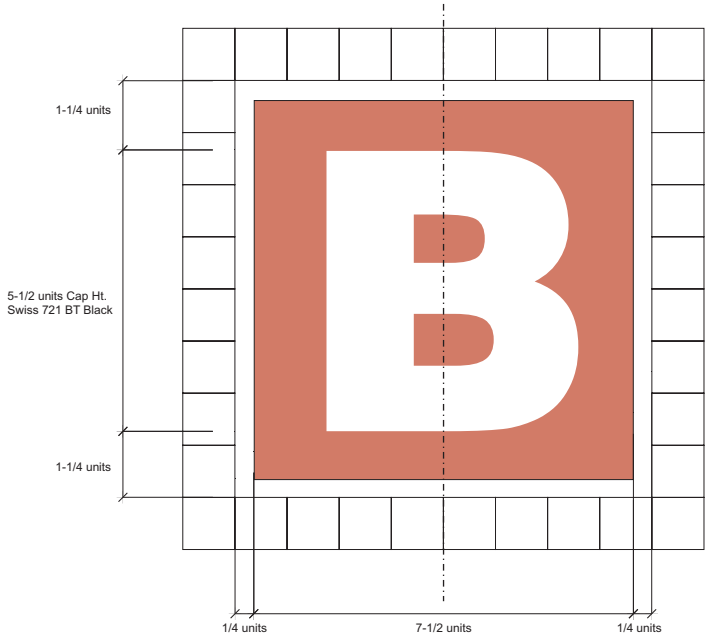
#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Terminal A Identification Icon:



Terminal B Identification Icon:



Terminal Identification Icons

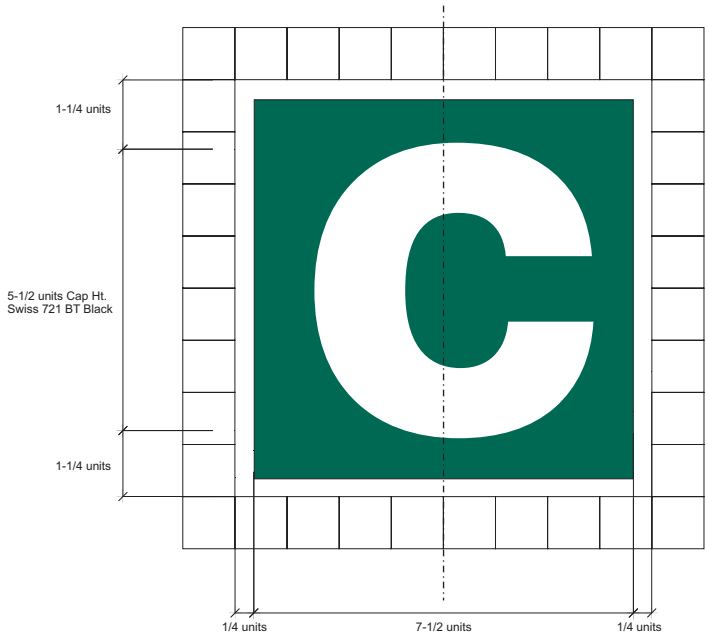
Figure 2.2.1

2.0 GRAPHIC STANDARDS

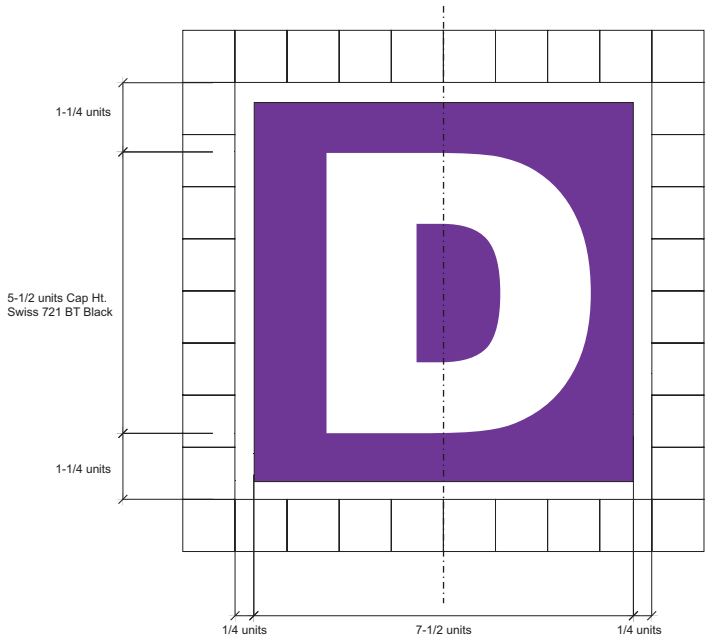
#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Terminal C Identification Icon:



Terminal D Identification Icon:



Terminal Identification Icons cont'd

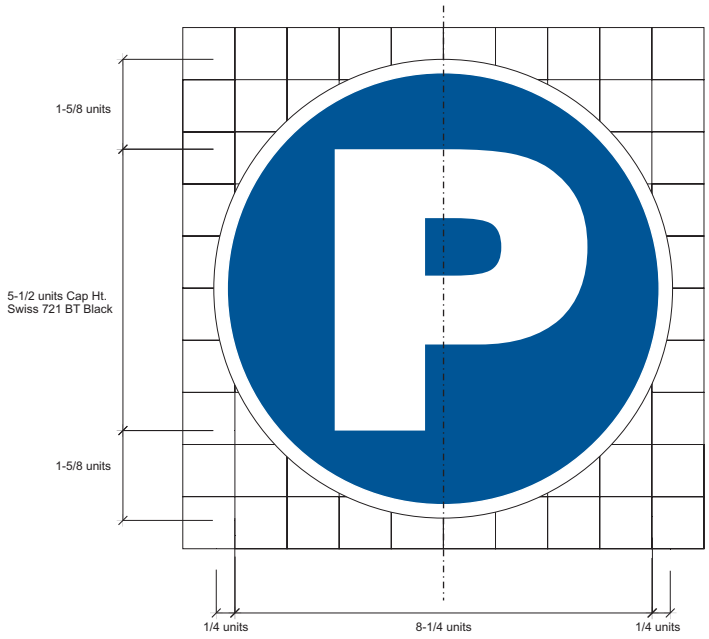
Figure 2.2.1

2.0 GRAPHIC STANDARDS

#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Parking Identification Icon:



Terminal/Parking Identification Icons

Figure 2.2.1

#	Revision	Date

Terminology and Corresponding Symbol Applications 2.2.3

Principal Airport Nomenclature

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Terminal A		• Identifies the terminal that is designated as "A". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Terminal B		• Identifies the terminal that is designated as "B". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Terminal C		• Identifies the terminal that is designated as "C". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Terminal D		• Identifies the terminal that is designated as "D". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Parking		• Identifies the Parking facilities. • To be used as an international symbol.

Fundamental Airport Functions

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Baggage Claim		• Identifies baggage claim. • Primary information on overhead directionals.
Gates		• Identifies a gate. • Primary information on overhead directionals in the Terminals.
Ticketing		• Identifies ticketing and baggage check-in areas. • Primary information on overhead directionals in the Terminals.
Connecting Flights		• Identifies Connecting Flights. • Primary information on overhead directionals.

NOTE: The International Symbols listed in this section are those recommended by Carter and Burgess, Inc. base on the *Guidelines for Airport Signing and Graphics - Terminal and Landside, Third Edition, 2001.*

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Fundamental Airport Functions cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
International Arrivals		• Identifies the International Arrivals/meeters and greeters lobby curbside. • Symbol/ Term combination is used on directional signs only.

Parking Facilities

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Parking		• Identifies parking. • Primary information on overhead directionals curbside.

Transportation Methods

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Ground Transportation		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs and directories throughout the airport.
Active Pick-up		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Airport Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Charter Busses		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Transportation Methods cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Hotel Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Limos		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Logan Express		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Off-Airport Parking		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Rental Car Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Rental Car		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Transportation Methods cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Scheduled Busses		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Shared Vans		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Taxis		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.

Building Circulation

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Elevator		• Identifies an elevator.
Access Elevator		• Identifies handicap accessible elevator.
Escalator		• Identifies an escalator.
Stairs		• Identifies an enclosed stairwell.
Emergency Stairs		• Identifies an Emergency stairwell.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Baggage Services		• Identifies the various airline baggage service offices. • Not used on overhead directionals.
Baggage Carts		• Identifies the baggage cart dispenser. • Not used on overhead directionals.
Currency Exchange		• Identifies a currency exchange station. • Used on directories throughout the airport. • Not used on overhead directionals.
Bank		• Identifies a bank. • Used on directories throughout the airport. • Not used on overhead directionals.
ATM/Money		• Identifies an automatic teller machine. • Used on directories throughout the airport. • Not used on overhead directionals.
First Aid		• Identifies a first aid station. • Used on directories throughout the airport. • Not used on overhead directionals.
Fire Extinguisher		• Identifies Fire Extinguisher locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Telephone		• Identifies Telephone locations. • Used on directories throughout the airport. • Not used on overhead directionals.
TDD/ TTY		• Identifies location(s) for a telecommunications device for the deaf. • Used on directories throughout the airport. • Not used on overhead directionals.
Assistive Listening		• Identifies Assistive Listening Services. • Used on directories throughout the airport. • Not used on overhead directionals.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Handicap Access		• Identifies handicap locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Information		• Identifies Information locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Restrooms		• Identifies a location at which a Men's restroom and a Women's restroom occur. • Secondary information on overhead directionals throughout the airport. • Appears on identification signage throughout the airport. • Appears on directories throughout the airport.
Access Restrooms		• Identifies a location at which a handicap accessible restroom occurs. • Appears on identification signage throughout the airport. • Appears on directories throughout the airport.
Men		• Identifies a Men's restroom. • Not used on overhead directionals..
Women		• Identifies a Women's restroom. • Not used on overhead directionals.
Access Men		• Identifies a handicap accessible Men's restroom. • Not used on overhead directionals..
Access Women		• Identifies a handicap accessible Women's restroom. • Not used on overhead directionals.
Diaper Changing Station		• Identifies a diaper changing station or nursery. • Not used on overhead directionals.
Assisted Care		• Identifies an assisted care restroom. • Not used on overhead directionals.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Fax		• Identifies the location of a fax machine. • Appears on directories throughout the airport. • Not used on overhead directionals.
Postal Service		• Identifies a U.S. Mail box or Postal Office. • Appears on directories throughout the airport. • Not used on overhead directionals.
Lost and Found		• Identifies the lost and found office. • Appears on directories throughout the airport. • Not used on overhead directionals.
Hotel Information		• Identifies the location of Hotel Information. • Appears on directories throughout the airport. • Not used on overhead directionals.

Safety and Regulations

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
In-Transit Lounge		• Identifies the location of the In-Transit Lounge. • Appears on directories throughout the airport. • Not used on overhead directionals.
No Smoking		• Identifies areas where smoking is prohibited. • Not used on overhead directionals.
Smoking Permitted		• Identifies areas where smoking is permitted. • Not used on overhead directionals.
No Weapons		• Used on all FAA restrictive signage regarding the Transportation of Hazardous Materials. • Used at public entries of airport. • Not used on overhead directionals.
No Uncaged Animals		• Located at public entries of airport. • Not used on overhead directionals.
DO NOT ENTER		• Identifies a restricted area. • Not used on overhead directionals.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Safety and Regulations cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
EXIT		• Identifies a common exit to the facility. • Not used on overhead directionals.
Passport Control		• Identifies the immigration area. • Used in the FIS area only.
No Parking		• Identifies areas where parking is not permitted.
Pedestrian Caution		• Identifies areas for pedestrians where caution is recommended.

Concessions

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Food & Beverage		• Identifies category for all beverage services on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.
Food & Beverage		• Identifies category for all food services and restaurants on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.
Retail		• Identifies category for all retail services on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.

#	Revision	Date

This section defines a uniform hierarchy of messages and information to be used throughout the Boston-Logan International Airport (BOS) complex. By using the terminology set forth in this document, the designer shall be able to organize messages into three succinct categories: Primary, Secondary, and Tertiary.

Message Functions 2.3.1

Directional Messages
Directional messages are of great importance in the facility due to the fact that they are the main information source that enables passengers and visitors to choose the proper route to a specific destination point. This process involves selecting the correct path to a destination point and determining at which point a change of direction is required. Proper directional signing is necessary since the rapid movement of vehicles, visitors, employees, and passengers is essential for maximum utilization and efficiency of the facility.

Identification Messages
Identification messages mark terminals, gates, ticketing, and baggage claim locations, as well as, provide tenants' leasing space within the BOS complex with proper public exposure to their areas and other spaces governed by the airport authority.

Informational Messages
Informational messages typically provide specific and supplementary information about the airport services and functions. Also there are orientational messages that are often graphic, such as maps, so that visitors can develop a sense of the airport layout and their location within the airport.

Regulatory/ Safety Messages
Regulatory/safety messages relate to Federal Aviation Administration (FAA) requirements and recommendations as well as other federal, state, and city regulations. In general, these messages provide passengers with travel advice, warnings and legal restrictions.

Temporary Messages
Temporary messages fall into a separate category of messages. Temporary signs shall be used on an interim basis while permanent signs are in the process of repair or maintenance and as tentative signs while permanent signs are under construction.

.

#	Revision	Date

Message Hierarchy Relationships 2.3.2

Clear and concise information presented by Primary and Secondary signing systems ensures efficient passenger circulation. Tertiary signs must be coordinated with Primary and Secondary signs and interior design elements. This category of signs shall be distinguished from other signs by graphic methods.

Primary Messages
This information shall be the largest and most visible information on each sign. Primary information shall include:

- Exterior direction to and identification of Terminals, Arrivals, Departures, Ground Transportation, Parking, etc.

Secondary Messages
This information supplements or reinforces information already conveyed by the primary messages and signs listed above. It usually indicates the auxiliary services and support functions of the facility. Secondary information is to include:

- Exterior direction and identification of Ground Transportation, airline names, and Parking.

Tertiary Messages
Tertiary information supplements both the primary and secondary messages and is usually intended to inform visitors of regulations and warnings. All of the regulatory/ safety signs are generally considered to be tertiary. Tertiary information is to include:

- All "No Smoking" messages
- FAA required warning and information
- Other messages required by code

Functions and Hierarchy Relationships
It is important to understand that the same message may fall under a different category depending on its use. For example, a visitor on the roadway approaching the Terminal may find the term "Parking" as the primary message. However, the same term may also be found by a visitor in the Ground Transportation area and be considered secondary.

In general, emphasis shall be placed on the reduction of signs and sign content where possible. Additionally, the sign system shall move from the general to the more specific, as a user traverses the ground transportation areas.

#	Revision	Date

Message Hierarchy Relationships cont'd. 2.3.2

Functions and Hierarchy Relationships (cont'd):
Critical to the smooth flow of pedestrian and vehicular traffic is the need for visual continuity amongst messages and information of the same hierarchy, thus eliminating any elements which may interrupt the scheme or confuse the visitors.

The relationship between message function and message hierarchy serves to create a foundation for the classification of and determination of basic sign types. The tables on the following pages illustrate this relationship for the exterior messages required for BOS.

#	Revision	Date

Message Hierarchy Relationships cont'd. 2.3.2

Figures 2.3.1 and 2.3.2 demonstrate the hierarchy in which the messages are organized when signing for curbside areas within the facility. The message hierarchy is used to assist designers in grouping messages for directional , identification and information sign types. Primary messages should always be grouped with primary messages. If there is need for a secondary message on the same sign, its importance will always be secondary to all primary messages. The designer may have to place the secondary message on a secondary sign type. *Figure 2.3.2 shows an example of messaging on a 2 level directional sign.*

Curbside and Ground Transportation - Message Hierarchy

MESSAGE FUNCTION	PRIMARY	SECONDARY	TERTIARY
Directional	Ground Transportation Active Pick-up, Airport Shuttle, Charter Busses, Hotel Shuttle, Limos, Logan Express, Off-Airport Parking, Rental Car, Scheduled Busses, Shared Vans, Taxis Parking Terminals	Terminals A, B, C, D Parking International Arrivals	
Identification	Terminals A, B, C, D Arrivals Departures Airline Names Ground Transportation Active Pick-up, Airport Shuttle, Charter Busses, Hotel Shuttle, Limos, Logan Express, Off-Airport Parking, Rental Car Shuttle, Scheduled Busses, Shared Vans, Taxis, Parking	Bus company name Hotel Names Rental Car company name	Restrooms Telephone Emergency Telephone Elevators
Information or Orientation	Ground Transportation Directory		
Regulatory or Safety	No Parking No parking Tow Zone No Parking Fire Lane No Parking Authorized Vehicle only Access Parking Exit	Emergency Exit Only ENTER DO NOT ENTER No Smoking Smoking Permintted No Pedestrians Beyond this point	Pedestrians use Caution when crossing All FAA notices and required signs AUTHORIZED PERSONNEL ONLY

Curbside and Ground Transportation - Message Hierarchy

Figure 2.3.1



Curbside/ G.T. - Message Hierarchy

FUNCTION	PRIMARY
Directional	Ground Transportation Active Pick-up, Airport Shuttle, Charter Busses, Hotel Shuttle, Limos, Logan Express, Off-Airport Parking, Rental Car, Scheduled Busses, Shared Vans, Taxis Parking Terminals

Curbside and Ground Transportation - Directional Primary Message Hierarchy Example

Figure 2.3.2

#	Revision	Date

The arrow standards and applications portion of this document shall define the standards for arrow orientation, sizes, application and placement on directional signage at Boston-Logan International Airport (BOS).

Arrow symbols used as directional elements are more flexible and require less sign layout space than messages. Careful review of sign layouts must be done in order to produce proper proportioning between arrows, messages, symbols and sign panel dimensions *(See Arrow Placement Figure 2.4.4 for placement examples)*.

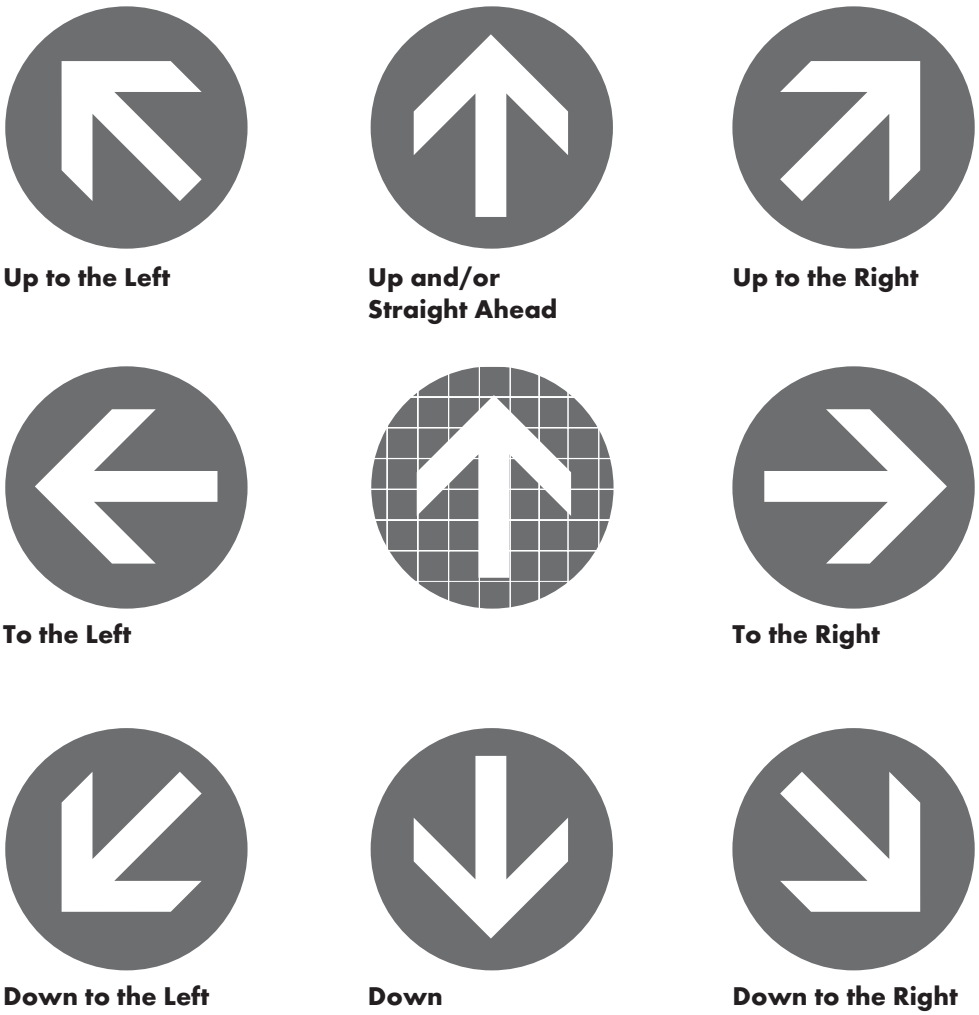
Arrow Orientations 2.4.1

The orientation and directional information that arrow symbols intend to convey is of equal importance to the consistent use of the recommended single style arrow. The arrow orientation to convey "straight ahead" is of particular interest. Either "up arrow" or the "down arrow" can be used for pedestrian specific traffic. However, Vehicular specific traffic typically uses only the “down arrow” to convey “straight ahead” information. Once a method has been selected for the "straight ahead" arrow orientation, consistent application should be continued throughout the signage system. The following are a few guidelines for the use of arrows:

- The standard arrow can be rendered in eight (8) different orientations for pedestrian specific traffic and five (5) for vehicular specific traffic. No alternate orientations are acceptable, unless approved by Massport.
- Pedestrian Signs: Arrow orientation should follow the guidelines provided in this section. Straight-ahead pedestrian movement should be indicated by upward-facing arrows, unless a downward-facing arrow can be shown to be clearly advantageous in a specific circumstance. Straight downward-facing arrows are normally reserved to indicate movement to a lower level *(see Figure 2.4.1)*.
- Vehicular Signs: Arrow orientation should follow the guidelines provided in this section. Straight-ahead vehicular movement should be indicated by downward facing arrows, unless an upward facing arow can be shown to be clearly advantageous in a specific circumstance *(See figure 2.4.2)*.

#	Revision	Date

Arrow Orientations cont'd. 2.4.1

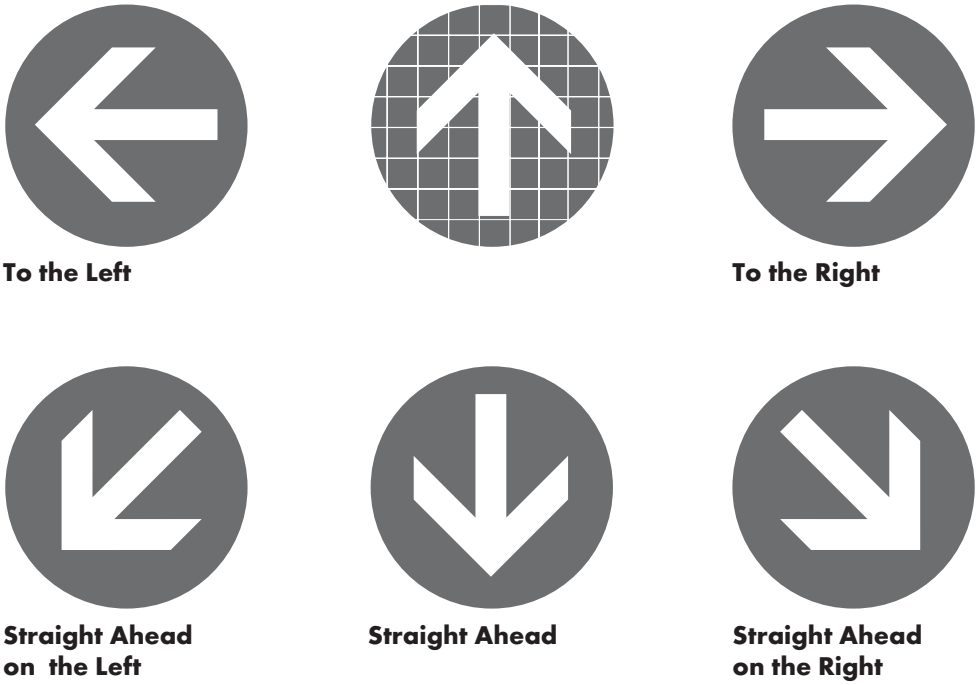


Pedestrian Arrow Orientation
N.T.S.

Figure 2.4.1

#	Revision	Date

Arrow Orientations cont'd. 2.4.1



Vehicular Arrow Orientation
N.T.S.

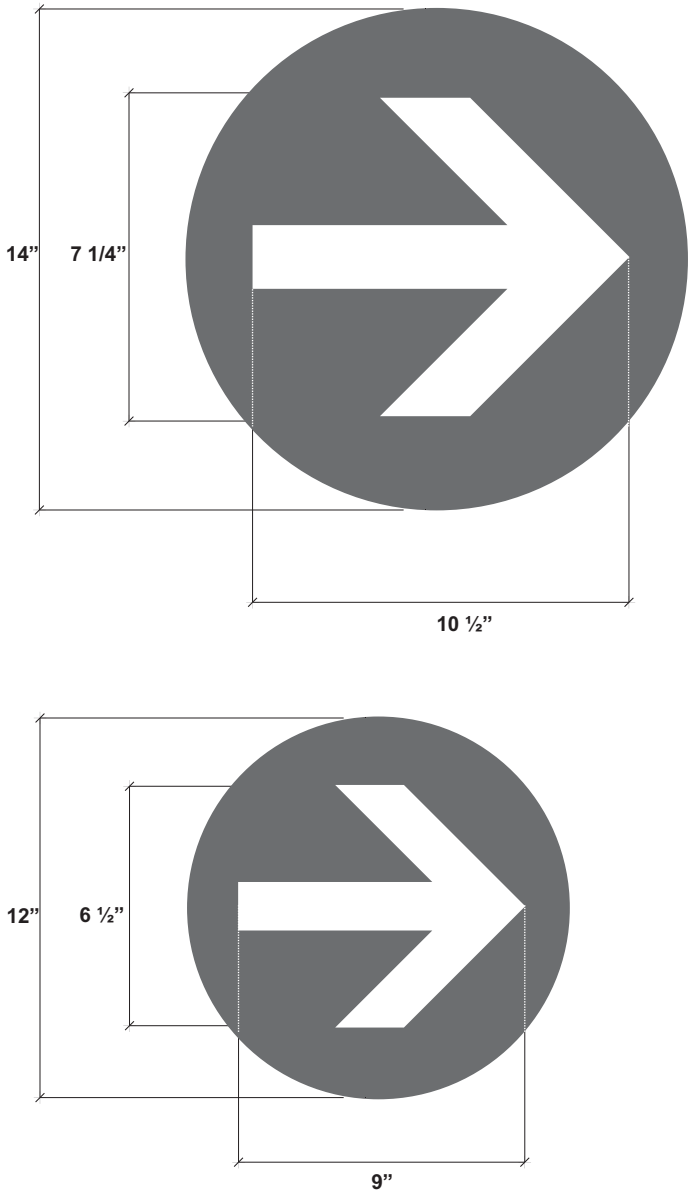
Figure 2.4.2

#	Revision	Date

Arrow Sizes 2.4.2

These figures define the arrow sizes that shall be used throughout Curbside and Ground Transportation. All vehicular primary signs shall utilize a 10 ½" x 7 1/4" or 9" x 6 ½" arrow size depending on sign type *(See Section 3.5 for Sign Type Layouts)*. All vehicular secondary signs shall use a 6"x 5 1/4"arrow size. All pedestrian primary or secondary signs shall utilize a 6" x 5 1/4" arrow size.

Vehicular - Primary



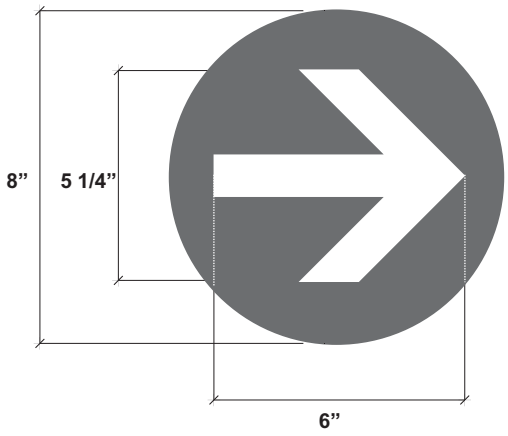
Arrow Sizes
N.T.S

Figure 2.4.2

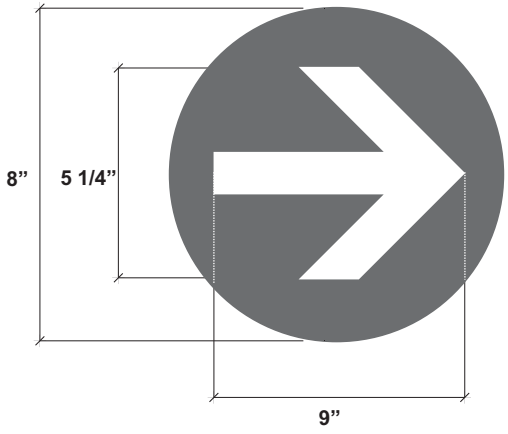
#	Revision	Date

Arrow Sizes, Cont. 2.4.2

Vehicular - **Secondary**



Vehicular - Primary/Secondary

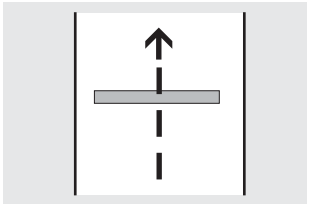
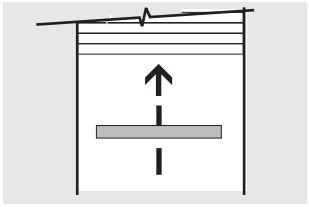
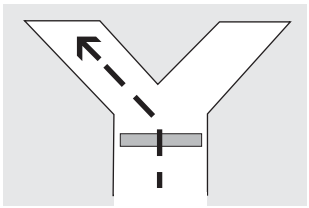
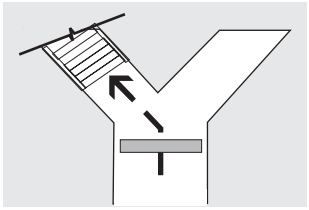
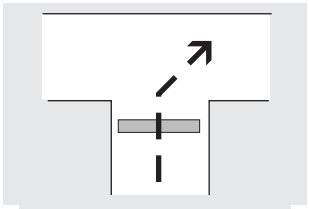
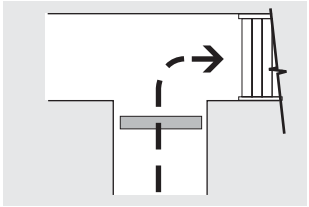


Arrow Sizes
N.T.S

Figure 2.4.2

#	Revision	Date

Arrow Application/Orientation 2.4.3

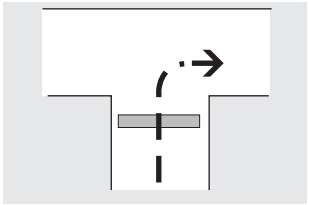
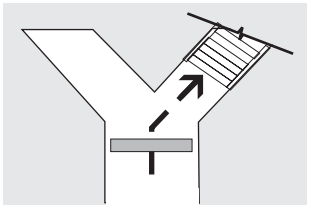
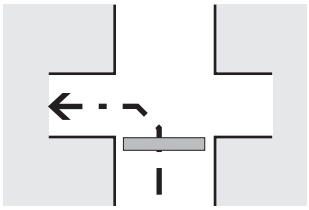
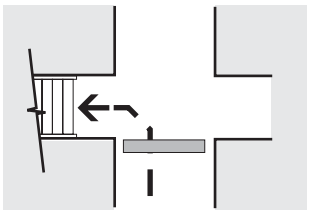
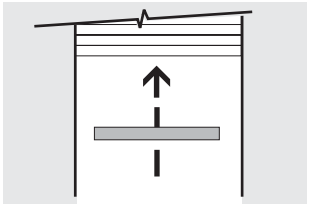
APPLICATION/ ORIENTATION	LOCATION PLAN	INTERPRETATION
		Straight Ahead
		Up
		Ahead on Left
		Up on Left
		Ahead on Right
		Up on Right

Pedestrian Arrow Application
N.T.S.

Figure 2.4.4

#	Revision	Date

Arrow Application/Orientation cont'd. 2.4.3

APPLICATION/ ORIENTATION	LOCATION PLAN	INTERPRETATION
		Right
		Down on Right
		Left
		Down on Left
		Down

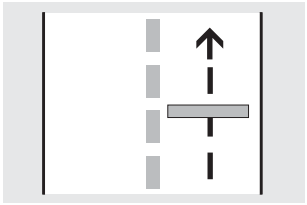
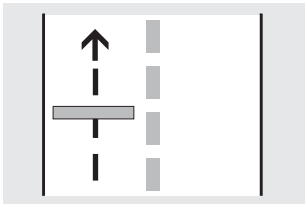
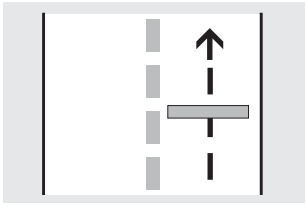
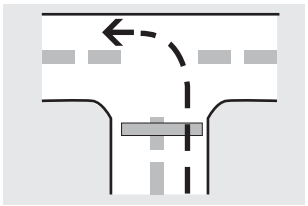
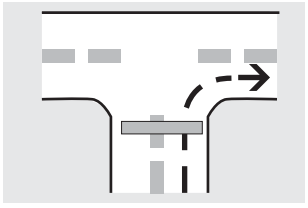
Pedestrian Arrow Application cont'd.
N.T.S.

Figure 2.4.4

2.0 GRAPHIC STANDARDS

#	Revision	Date

Arrow Application/Orientation cont'd. 2.4.3

APPLICATION/ ORIENTATION	LOCATION PLAN	INTERPRETATION
		Straight Ahead
		Ahead on Left
		Ahead on Right
		Left
		Right

Vehicular Arrow Application
N.T.S.

Figure 2.4.5

2.0 GRAPHIC STANDARDS

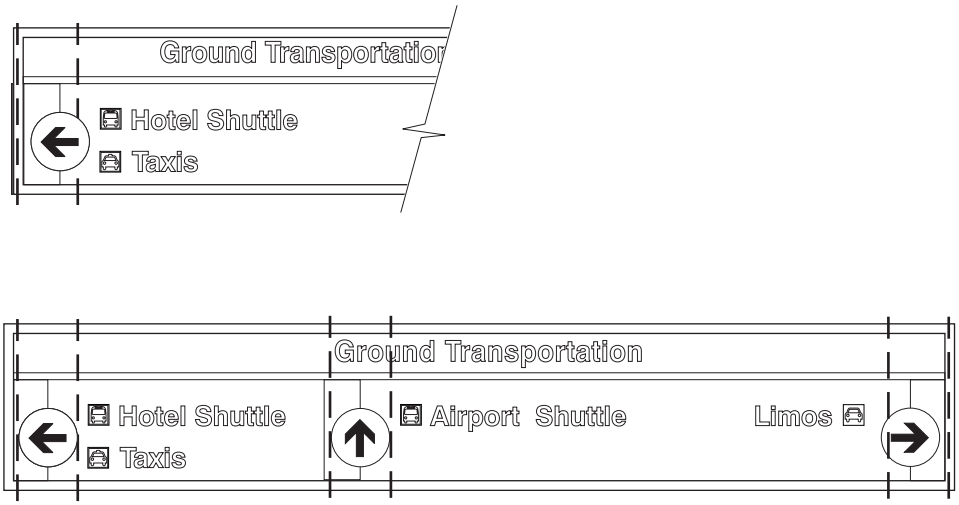
#	Revision	Date

Arrow Placement 2.4.4

The placement of arrows on sign faces should conform to the standard guidelines provided. Arrows may not be positioned in any other location on the sign face.

The following are placement guidelines and restrictions:

- Arrows should NOT point into text.
- Left-facing arrows should be located on the left side of signs, and right-facing arrows should be located on the right side of signs.
- Upward-facing arrows are normally located closest to the flow of traffic.
- Interior Signs: Arrows should be held within a designated vertical column along the left or right side of the message area (see Figure 2.4.6).



* See Sign Type Index - Section 3.4 for arrow location dimensions

Arrow Placement
N.T.S.

Figure 2.4.6

#	Revision	Date

This section of the document shall specify colors and applications that are to be used in the Curbside and Ground Transportation areas.

Color Specifications 2.5.1

Sign Color System - Curbside

Color Application	Color	Pantone Equivalent	Vinyl Equivalent	Paint Equivalent
Sign Face	Black	*Process Black*	*3M Black Opaque* Film #7725-12*	*MAP Paint* 41-335 Black Anodic*
Text	White	*White*	*3M Translucent White* Film #3630-20*	*MAP Paint* 42-202 Natural White*
Arrows International Symbols	White	*White*	*3M Translucent White* Film #3630-20*	*MAP Paint* 42-202 Natural White*
Terminal Identification Terminal A	Blue	*PMS 300*	*3M Translucent Intense Blue # 230/230-127*	*3M# 220/225-47 Intense Blue*
Terminal B	Red	*PMS 186*	*3M Translucent Red # 230/230-33*	*3M# 220/225-13 Tomato Red*
Terminal C	Green	*PMS 336*	*3M Translucent Green # 230/230-26*	*3M# 220/225-186 Bright Green*
Terminal D	Purple	*PMS 2593*	*Color to match PMS 2593*	*3M# Color to match PMS 2593c*
Parking Identification	Blue	*Color to match PMS 294C*	*3M Vivid Blue* Film # 220-17*	*Color to match PMS 294C*
Neutral Identification	70% Black	*Color to match 70% Process Black*	3M Opaque Film (Dark Gray) #7725-41	*MAP Paint* to match 70% Process Black*
Kickplates Endcaps Directory Caps Terminal ID Letters	Aluminum Finish	*N/A*	*N/A*	*N/A*

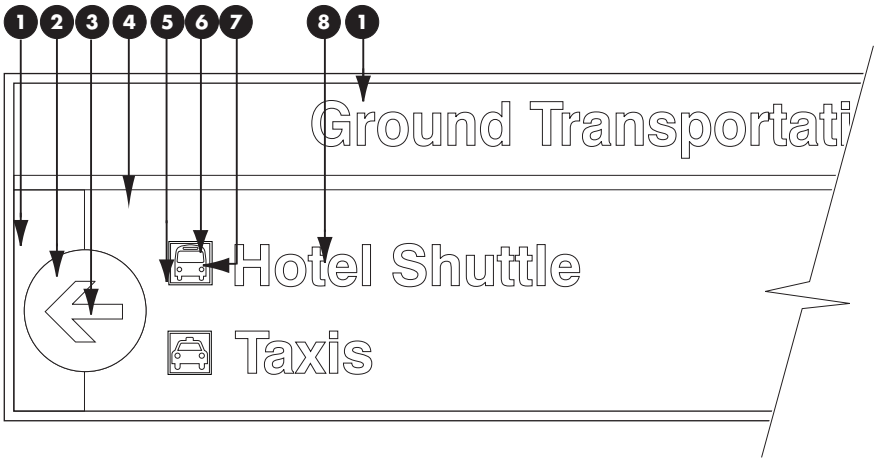
*or approved equal

Color Specification
N.T.S.

Figure 2.5.1

#	Revision	Date

Color Application 2.5.2



Sign Color Application - Curbside

Color Application	Color
1 **Color Band**	
Terminal A (Curbside)	Blue
Terminal B (Curbside)	Red
Terminal C (Curbside)	Green
Terminal D (Curbside)	Purple
2 **Arrow Background**	70% Black
3 **Arrows**	White
4 **Sign Face**	Black
5 **Symbol Frame**	White
6 **Symbol Background**	Black
7 **Symbol Image**	White
8 **Text**	White

Color Application Examples
N.T.S.

Figure 2.5.2

#	Revision	Date

Identification System 3.1.1

Series 100 - Terminals

Sign No.	Description
101 - 150	Directional
151 - 180	Identification
181 - 199	Informational

Series 200 - Curbside

Sign No.	Description
201 - 250	Directional
251 - 280	Identification
281 - 299	Informational

Series 300 - Parking

Sign No.	Description
301 - 350	Directional
351 - 380	Identification
381 - 399	Informational

Series 400 - Roadways

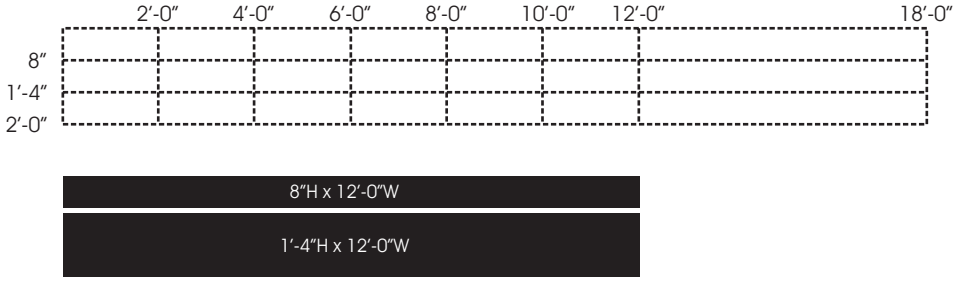
Sign No.	Description
401 - 450	Directional
451 - 480	Identification
481 - 499	Informational

Series 500 - Airport Services Buildings

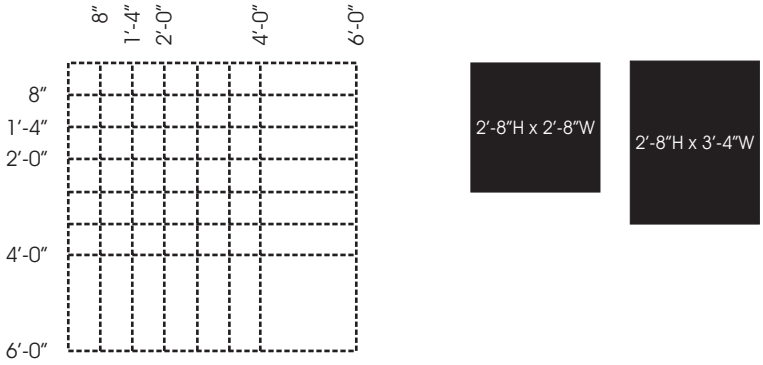
Sign No.	Description
501 - 550	Directional
551 - 580	Identification
581 - 599	Informational

#	Revision	Date

Directional - Primary 3.2.1



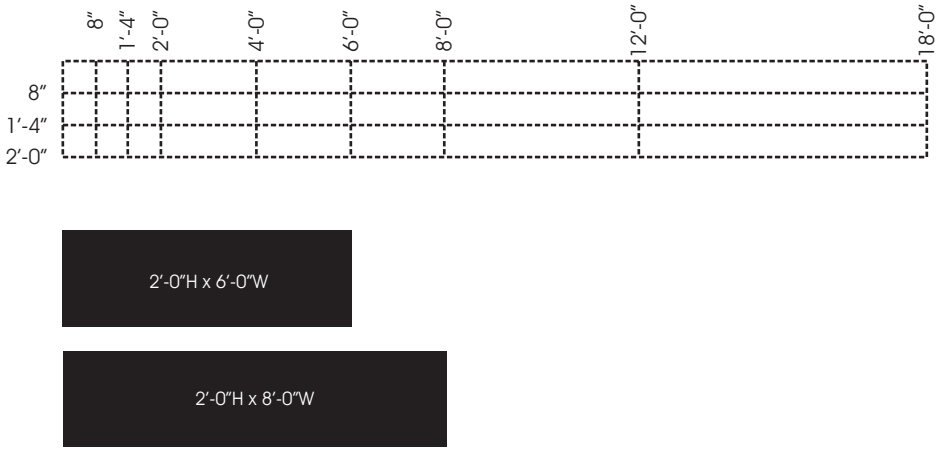
Directional - Secondary 3.2.2



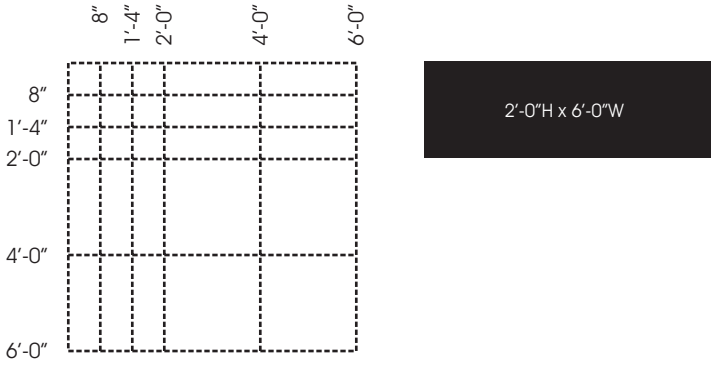
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date

Identification - Primary 3.2.3

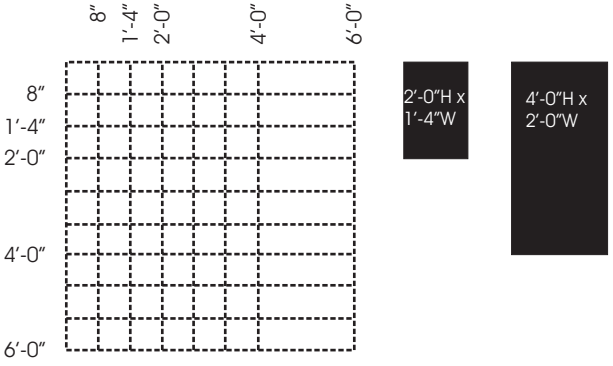


Identification - Secondary 3.2.4



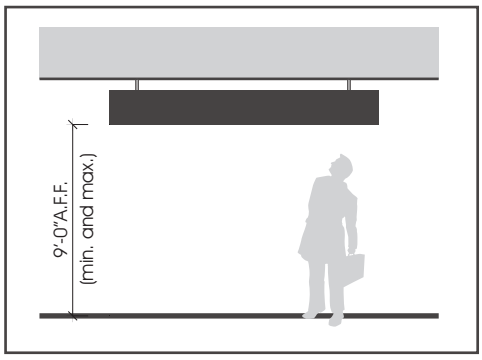
#	Revision	Date

Informational - Primary / Secondary 3.2.5

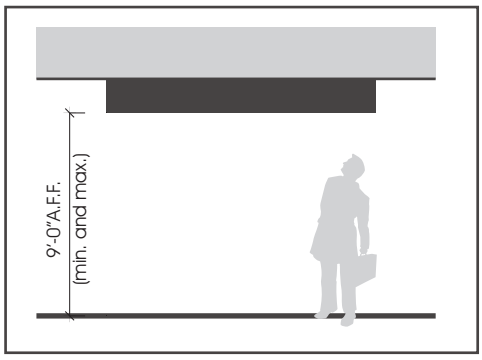


#	Revision	Date

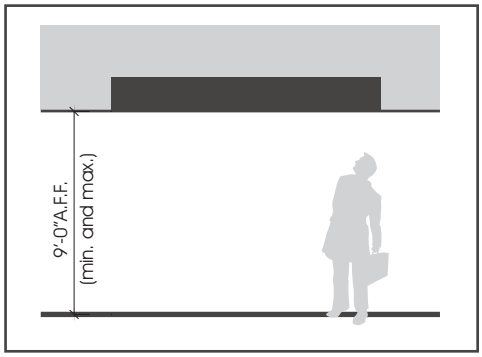
Directional - Primary 3.3.1



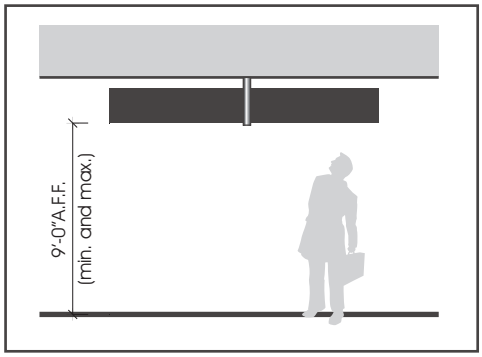
CEILING SUSPENDED



CEILING MOUNTED

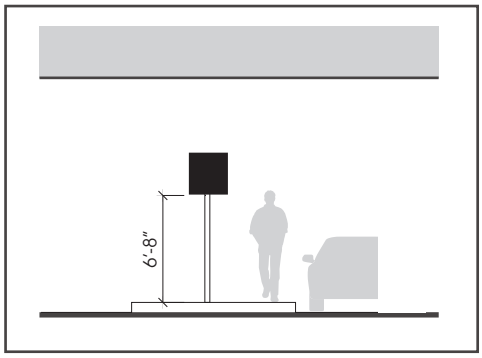


SOFFIT MOUNTED



CEILING SUSPENDED

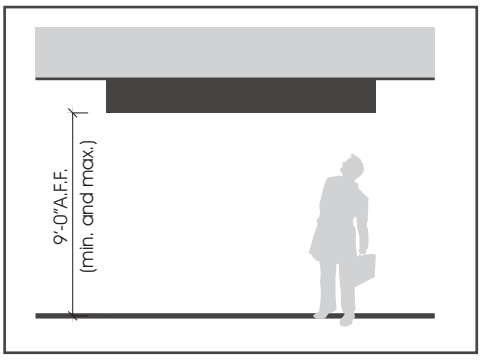
Directional - Secondary 3.3.2



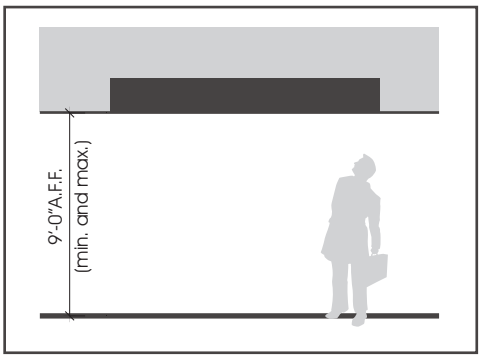
POST MOUNTED

#	Revision	Date

Identification - Primary 3.3.3

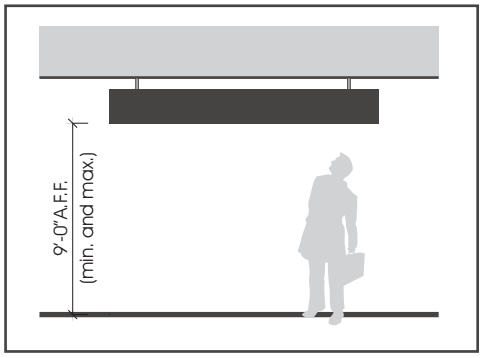


CEILING MOUNTED

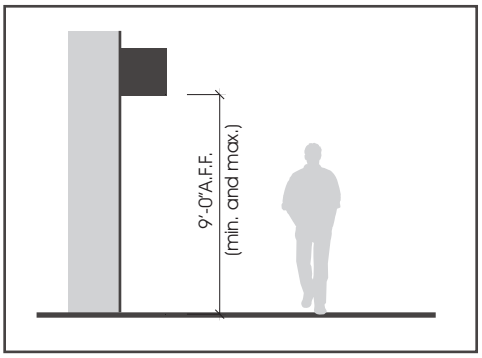


SOFFIT MOUNTED

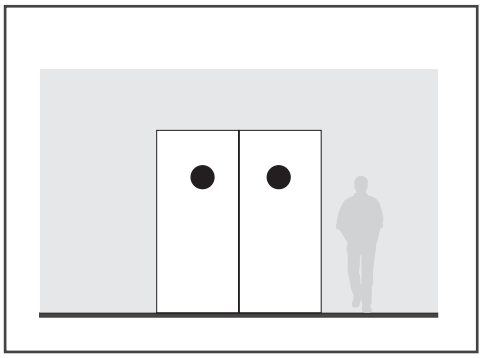
Identification - Secondary 3.3.4



CEILING SUSPENDED



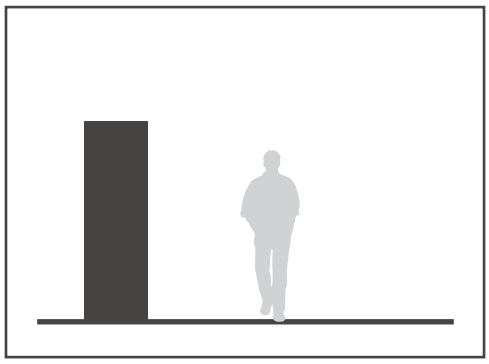
FLAG MOUNTED



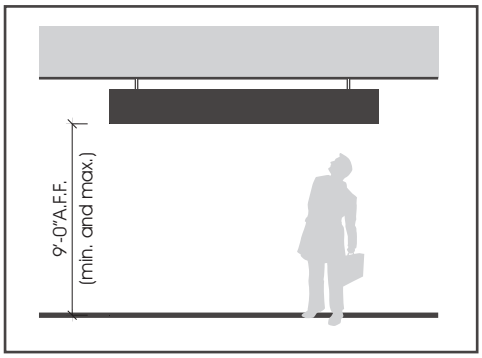
SURFACE APPLIED

#	Revision	Date

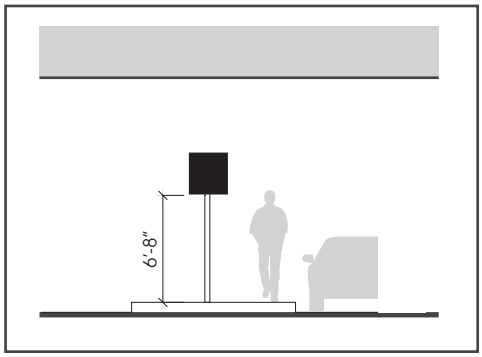
Informational - Primary / Secondary 3.3.5



FLOOR MOUNTED



CEILING SUSPENDED



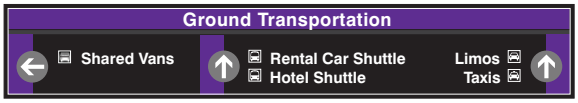
POST MOUNTED

#	Revision	Date

Directional - Primary 3.4.1

Overhead suspended

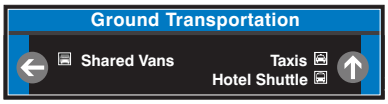
ST - 201



- Description: Pedestrian Three directional - Two levels of messaging
- Overall Dimensions: 12'-0"L x 2'-0"H x 7-1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht/4" Cap Ht Header
- 6" Arrow Size
- 3" Symbol Ht
- Interior

Overhead suspended

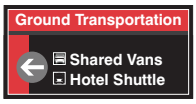
ST - 202



- Description: Pedestrian Two directional - Two levels of messaging
- Overall Dimensions: 8'-0"L x 2'-0"H x 7-1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht/ 4" Cap Ht Header
- 6" Arrow Size
- 3" Symbol Ht
- Interior

Overhead suspended

ST - 203



- Description: Pedestrian One directional - Two levels of messaging
- Overall Dimensions: 4'-0"L x 2'-0"H x 7-1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht/3" Cap Ht Header
- 6" Arrow Size
- 3" Symbol Ht
- Interior

#	Revision	Date

Directional - Primary cont'd. 3.4.1

Overhead suspended

ST - 204



- Description: Pedestrian Three directional - One level of messaging
- Overall Dimensions: 12'-0"L x 1'-4"H x 7-1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht/4" Cap Ht Header
- 6" Arrow Size
- 3" Symbol Ht
- Interior

Overhead suspended

ST - 205



- Description: Pedestrian Two directional - One level of messaging
- Overall Dimensions: 8'-0"L x 1'-4"H x 7 -1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht/4" Cap Ht Header
- 6"Arrow Size
- 3" Symbol Ht
- Interior

Overhead suspended

ST - 206

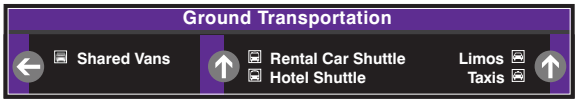


- Description: Pedestrian One directional - One level of messaging
- Overall Dimensions: 4'-0"L x 1'-4"H x 7-1/16"D
- Used in primary circulation corridors perpendicular to main pedestrian traffic flow.
- Illuminated
- 3" Cap Ht/3" Cap Ht Header
- 6" Arrow Size
- 3" Symbol Ht
- Interior

#	Revision	Date

Directional - Primary cont'd. 3.4.1

Overhead suspended **ST - 207**



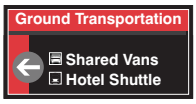
- Description: Pedestrian Three directional - Two levels of messaging
- Overall Dimensions: 12'-0"L x 2'-0"H x 7-1/16"D
- Used at curbside perpendicular to pedestrian traffic flow coming out of the terminal.
- Non Illuminated
- 3" Cap Ht/4" Cap Ht Header
- 6" Arrow Size
- 3" Symbol Ht
- Exterior

Overhead suspended **ST - 208**



- Description: Pedestrian Two directional - Two levels of messaging
- Overall Dimensions: 8'-0"L x 2'-0"H x 7-1/16"D
- Used at curbside perpendicular to pedestrian traffic flow coming out of the terminal.
- Non Illuminated
- 3" Cap Ht/ 4" Cap Ht Header
- 6" Arrow Size
- 3" Symbol Ht
- Exterior

Overhead suspended **ST - 209**



- Description: Pedestrian One directional - Two levels of messaging
- Overall Dimensions: 4'-0"L x 2'-0"H x 7-1/16"D
- Used at curbside perpendicular to pedestrian traffic flow coming out of the terminal.
- Non Illuminated
- 3" Cap Ht/3" Cap Ht Header
- 6" Arrow Size
- 3" Symbol Ht
- Exterior

#	Revision	Date

Directional - Primary cont'd. 3.4.1

Overhead suspended

ST - 210



- Description: Pedestrian Three directional - One level of messaging
- Overall Dimensions: 12'-0"L x 1'-4"H x 7-1/16"D
- Used at curbside perpendicular to pedestrian traffic flow coming out of the terminal.
- Non Illuminated
- 3" Cap Ht/4" Cap Ht Header
- 4.5" Arrow Size
- 3" Symbol Ht
- Exterior

Overhead suspended

ST - 211



- Description: Pedestrian Two directional - One level of messaging
- Overall Dimensions: 8'-0"L x 1'-4"H x 7-1/16"D
- Used at curbside perpendicular to pedestrian traffic flow coming out of the terminal.
- Non Illuminated
- 3" Cap Ht/4" Cap Ht Header
- 4.5"Arrow Size
- 3" Symbol Ht
- Exterior

Overhead suspended

ST - 212



- Description: Pedestrian One directional - One level of messaging
- Overall Dimensions: 4'-0"L x 1'-4"H x 7-1/16"D
- Used at curbside perpendicular to pedestrian traffic flow coming out of the terminal.
- Non Illuminated
- 3" Cap Ht/3" Cap Ht Header
- 4.5" Arrow Size
- 3" Symbol Ht
- Exterior

#	Revision	Date

Directional - Primary cont'd. 3.4.1

Overhead suspended

ST - 213



- Description: Pedestrian Airline Listing Directional
- Overall Dimensions: 8'-0"L x 2'-0"H x 7-1/16"D
- Used at the curbside between the facilities of Terminal B perpendicular to the main pedestrian traffic flow.
- Non Illuminated
- 3" Cap Ht/4" Cap Ht Header
- 6" Arrow Size
- Exterior

#	Revision	Date

Directional - Primary cont'd. 3.4.1

Overhead suspended **ST - 214**



- Description: Vehicular Three directional - Two levels of messaging
- Overall Dimensions: 18'-0"L x 2'-0"H x 3"D
- Used at curbside as approaching from the roadways..
- Non Illuminated
- 6" Cap Ht
- 10 ½" Arrow Size
- Exterior

Overhead suspended **ST - 215**



- Description: Vehicular Two directional - Two levels of messaging
- Overall Dimensions: 12'-0"L x 2'-0"H x 3"D
- Used at curbside as approaching from the roadways.
- Non Illuminated
- 6" Cap Ht
- 10 ½" Arrow Size
- Exterior

Overhead suspended **ST - 216**



- Description: Vehicular One directional - Two levels of messaging
- Overall Dimensions: 6'-0"L x 2'-0"H x 3"D
- Used at curbside as approaching from the roadways..
- Non Illuminated
- 6" Cap Ht
- 10 ½" Arrow Size
- Exterior

#	Revision	Date

Directional - Primary cont'd. 3.4.1

Overhead suspended

ST - 217



- Description: Vehicular Three directional - One level of messaging
- Overall Dimensions: 18'-0"L x 1'-4"H x 3"D
- Used at curbside as approaching from the roadways..
- Non Illuminated
- 6" Cap Ht
- 9" Arrow Size
- Exterior

Overhead suspended

ST - 218



- Description: Vehicular Two directional - One level of messaging
- Overall Dimensions: 12'-0"L x 1'-4"H x 3"D
- Used at curbside as approaching from the roadways..
- Non Illuminated
- 6" Cap Ht
- 9" Arrow Size
- Exterior

Overhead suspended

ST - 219



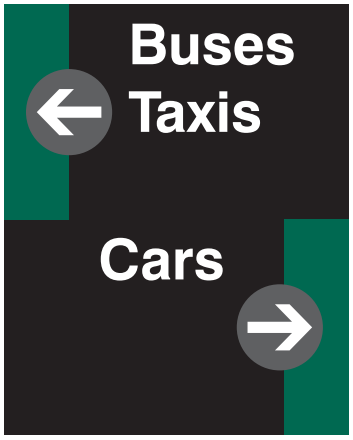
- Description: Vehicular One directional - One level of messaging
- Overall Dimensions: 4'-0"L x 1'-4"H x 3"D
- Used at curbside as approaching from the roadways..
- Non Illuminated
- 6" Cap Ht
- 9" Arrow Size
- Exterior

#	Revision	Date

Directional - Secondary 3.4.2

Post Mount

ST - 220



- Description: Vehicular Secondary Directional
- Overall Dimensions: 2'-8"L x 3'-4"H x ½"D
- Used at curbside to separate traffic.
- Non Illuminated
- 4" Cap Ht
- 6" Arrow Size
- Exterior

Post Mount

ST - 221



- Description: Vehicular Secondary Directional
- Overall Dimensions: 2'-8"L x 2'8"H x ½"D
- Used before curbside to regulate and/or separate traffic.
- Non Illuminated
- 4" Cap Ht
- Exterior

#	Revision	Date

Identification - Primary 3.4.3

Overhead suspended

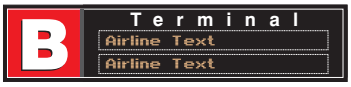
ST - 251



- Description: Terminal ID - Airline Listing ID
- Overall Dimensions: 8'-0"L x 2'-0"H x 7-1/16"D
- Used at curbside in every terminal entrance perpendicular to vehicular traffic.
- Illuminated
- 4" Cap Ht/4" Cap Ht Header/3" Dynamic text
- Kerning @ 250%
- 15" Terminal letter
- Exterior

Overhead Suspended

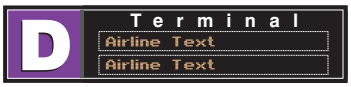
ST - 252



- Description: Terminal ID - Airline Listing
- Overall Dimensions: 6'-0"L x 1'-4"H x 7-1/16"D
- Used at Curbside over Terminal door entrances in Terminal B and C
- Illuminated
- 3" Cap Ht Header/3" Dynamic text
- Kerning @ 250%
- 12" Terminal letter
- Exterior

Soffit mounted

ST - 253



- Description: Terminal ID - Airline Listing
- Overall Dimensions: 6'-0"L x 1'-4"H x 7-1/16"D
- Used at Curbside over Terminal door entrances in Terminal A and D.
- Illuminated
- 3" Cap Ht Header/3" Dynamic text
- Kerning @ 250%
- 12" Terminal letter
- Exterior

#	Revision	Date

Identification - Primary Cond't. 3.4.3

Overhead suspended

ST - 254

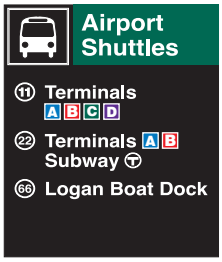


- Description: Ground Transportation ID
- Overall Dimensions: 8'-0"L x 2'-0"H x 7-1/16"D
- Used at curbside to identify Ground Transportation functions perpendicular to vehicular traffic.
- Non Illuminated
- 3" Cap Ht/4"Cap Ht Header/12" Terminal letter
- Kerning @ 10%
- 15" Symbol size
- Exterior

#	Revision	Date

Identification - Secondary 3.4.4

Flag mount ST - 255



- Description: Pedestrian Ground Transportation ID
- Overall Dimensions: 2'-6"L x 3'-2"H x 3-7/32"D
- Used at curbside to identify Ground Transportation functions perpendicular to vehicular traffic.
- Non Illuminated
- 2- 3/4" Cap Ht/3" Cap Ht Header
- 8 ½" Symbol size/2- 3/4" Symbol size
- Exterior

Surface applied ST - 256



- Description: Door ID
- Overall Dimensions: 1'-0"L x 1'-0"H
- Used at terminal entrance doors (Applied to each door).
- Non Illuminated
- 3" Door Number
- Interior/Exterior

Flag Mount ST - 257



- Description: Ground Transportation door ID
- Overall Dimensions: 6'-0"L x 2'-0"H x 7-1/16"D
- Used inside terminals at entrance door perpendicular to pedestrian traffic flow.
- Illuminated
- 3" Cap Ht/4" Cap Ht Header/6" Door Number
- Interior

#	Revision	Date

Identification - Secondary 3.4.4

Overhead suspended

ST - 258



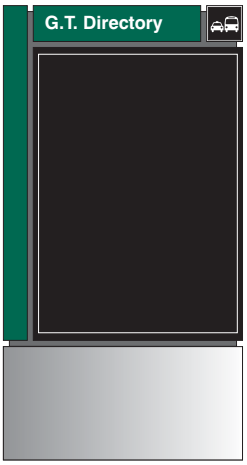
- Description: Rental Car Telephone ID
- Overall Dimensions: 8'-0"L x 1'-0"H x 7-1/16"D
- Used at Rental Car Telephone booths.
- Illuminated
- 5" Cap Ht
- 8" Symbol
- Interior

#	Revision	Date

Informational - Primary / Secondary 3.4.5

Floor Mount

ST - 281



Notes: See section 3.5 Sign Type layouts (ST-281) for alternate header message.

- Description: Ground Transportation directory
- Overall Dimensions: 6'-4"L x 3'-4"H x 7- 1/16"D Base Dimensions: 3'-4"L x 1'-7"H x 7- 1/16"D
- Used at curbside for pedestrian use outside main circulation path.
- Non Illuminated
- 3" Directory Cap Ht
- Exterior
- NOTE: Directory frame may be used for different types of directories such as Terminal Directories, Airport Directories, etc. Interior artwork to be provided by Massport.

Post Mount

ST - 282



- Description: Parking Regulatory
- Overall Dimensions: 1'-6"L x 2'-0"H x 0'-.5"D
- Terminal Curbside (Departure) and Ground Transportation (Arrival) areas.
- Non Illuminated
- 2.5" Primary Cap Ht/1 ½"Secondary Cap Ht
- 6" Symbol Ht
- Exterior
- Use colors as specified in the layouts. Colors specified are not Terminal specific.

#	Revision	Date

Informational - Primary / Secondary cont'd. 3.4.5

Post mount

ST - 283



- Description: Regulatory
- Overall Dimensions: 1'-6"L x 2'-0"H x 0'-.5"D
- Terminal Curbside (Departure) and Ground Transportation (Arrival) areas.
- Non Illuminated
- 2.5" Primary Cap Ht/ 1" Secondary Cap Ht
- 6" Symbol Ht
- Exterior
- Use colors as specified in the layouts. Colors specified are not Terminal specific.

Post Mount

ST - 284



- Description: Pedestrian Caution
- Overall Dimensions: 1'-6"L x 2'-0"H x 0'-.5"D
- Terminal Curbside (Departure) and Ground Transportation (Arrival) areas.
- Non Illuminated
- 2.5" Primary Cap Ht/ 1.5" Secondary Cap Ht
- 7.5" Symbol Ht
- Exterior
- Use colors as specified in the layouts. Colors specified are not Terminal specific.

#	Revision	Date

Informational - Primary / Secondary cont'd. 3.4.5

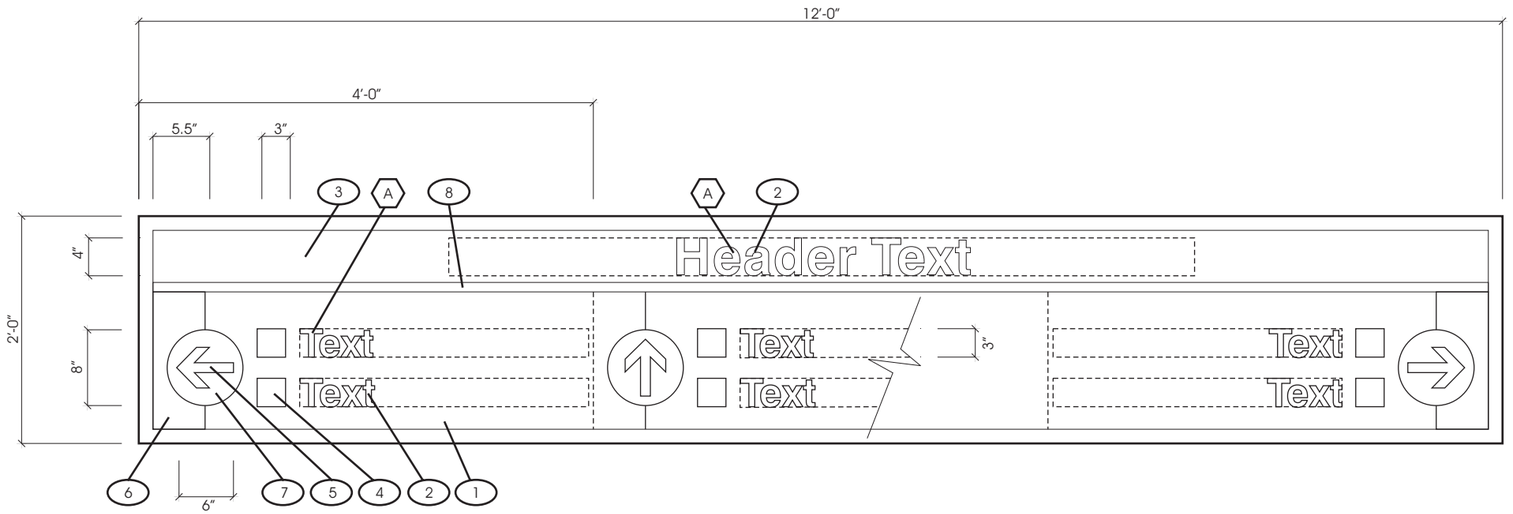
Overhead suspended

ST - 285



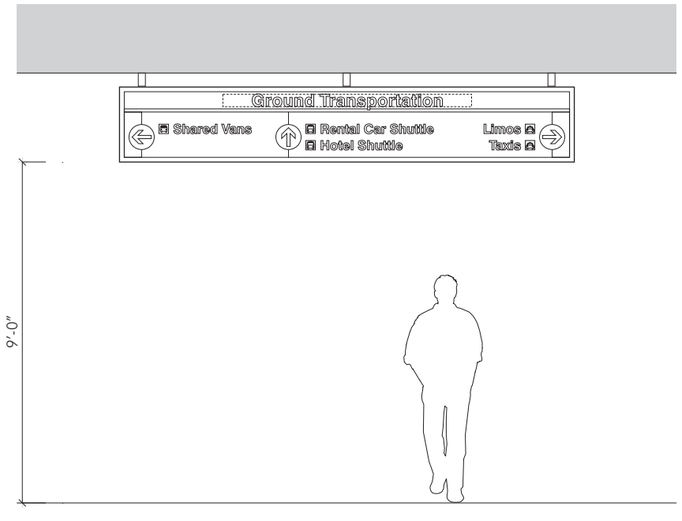
- Description: Vehicular Clearance ID.
- Overall Dimensions: 2'-0"H x 0'-.5"D (Length to be determined by number of vehicle lanes.)
- Used at curbside as approaching from the roadways to delineate height clearance for vehicular traffic.
- Non Illuminated
- 5" Cap Ht
- Exterior

#	Revision	Date



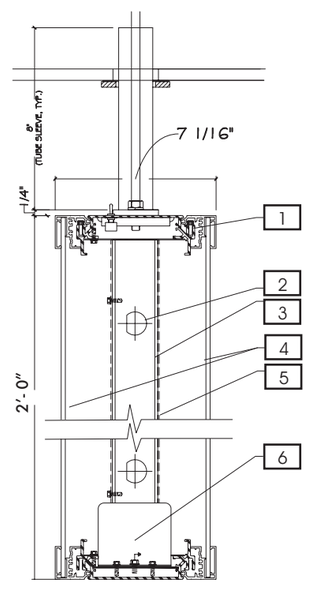
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Interior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 201

DESCRIPTION: Pedestrian Three directional - Two Levels of messaging - **Interior**.

LOCATION: Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: Translucent Acrylic (Refer to 6 for specific color)
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41
8. Back Panel: 3M Opaque film (dark Gray) #7725-41

GRAPHICS: N/A

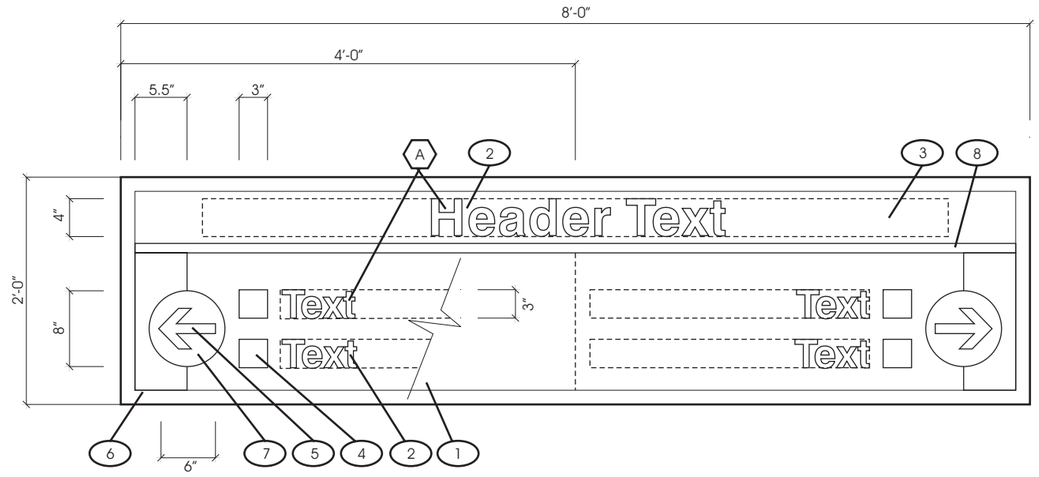
ARROWS: 6"x 4.25" (Refer to Section 2.4.1)
MOUNTING: Overhead suspended.
ILLUMINATION: Sign will be internally illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
6. Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8" Ballast France 688 DR

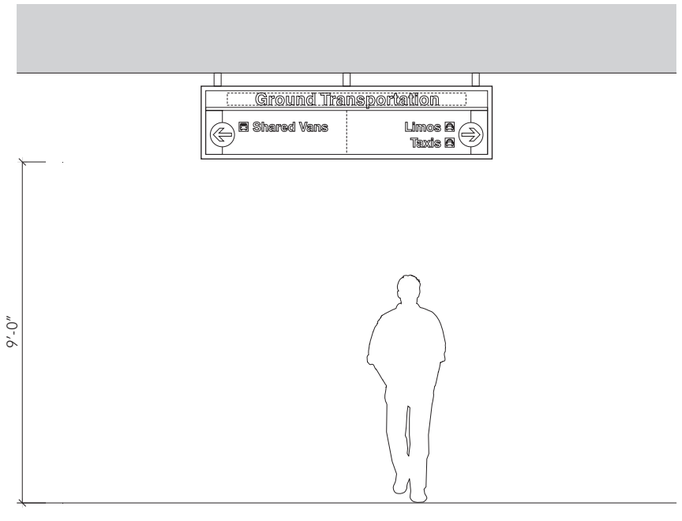
Directional Signs - Primary 3.5.1

#	Revision	Date



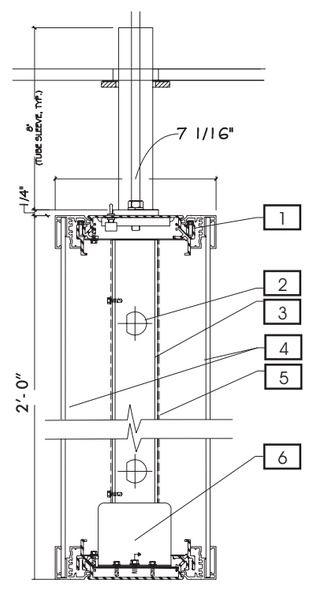
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Interior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 202

DESCRIPTION: Pedestrian Two directional - Two Levels of messaging - **Interior**.

LOCATION: Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (Refer to 6 for specific color)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle:3M Opaque Film (dark gray) #7725-41
- 8 Back panel: 3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 6"x 4.25" (Refer to Section 2.4.1)
MOUNTING: Overhead suspended
ILLUMINATION: Sign will be internally illuminated
REMARKS: Refer to Section 2.5 for vinyl specifications.

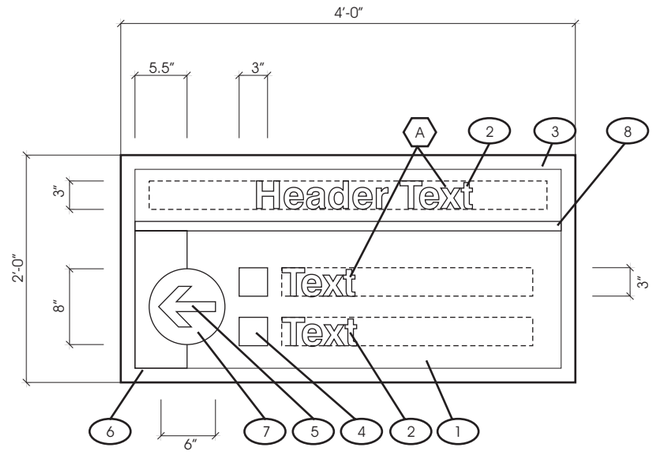
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
6. Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8" Ballast France 688 DR

Directional Signs - Primary 3.5.1

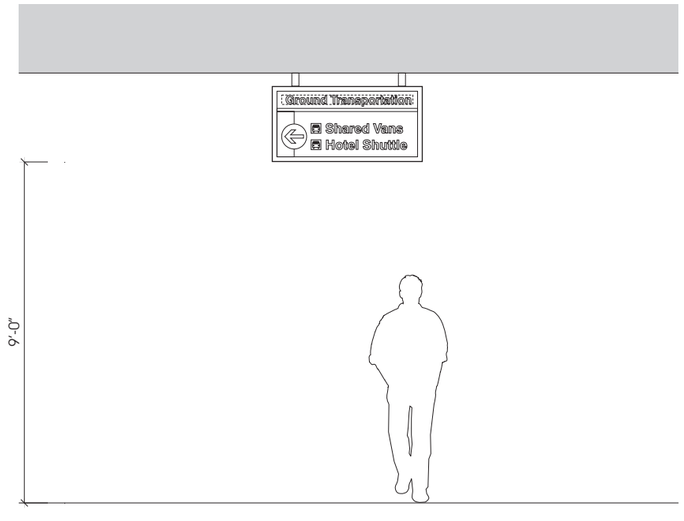
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



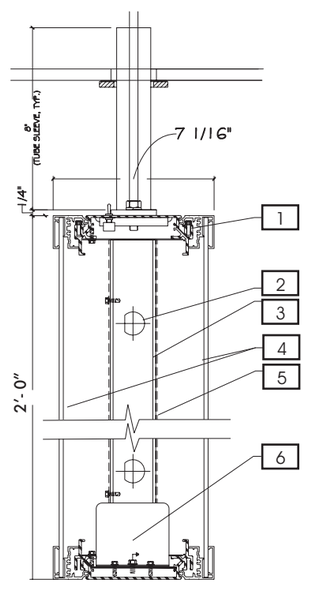
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Interior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 203

DESCRIPTION: Pedestrian One directional - Two Levels of messaging - **Interior**.

LOCATION: Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (Refer to 6 for specific color)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
- 8 Back panel:3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

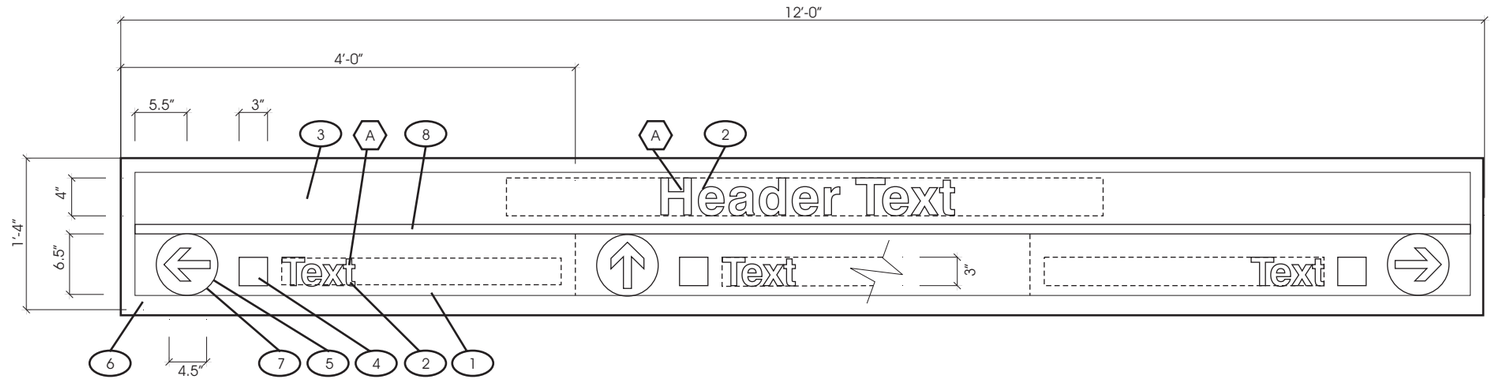
ARROWS: 6"x 4.25" (Refer to Section 2.4.1
MOUNTING: Overhead suspended.
ILLUMINATION: Sign will be internally illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.
REMARKS: N/A

NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
6. Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8" Ballast France 688 DR

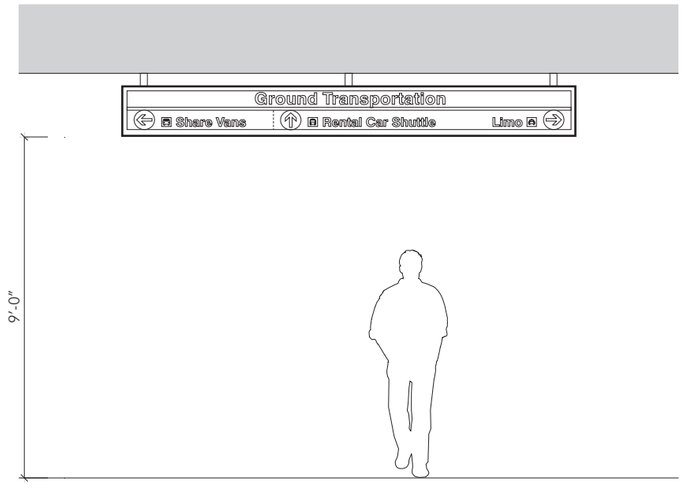
Directional Signs - Primary 3.5.1

#	Revision	Date



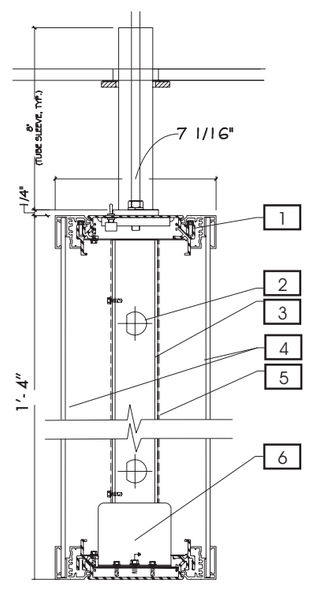
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Interior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 204

DESCRIPTION: Pedestrian Three directional - One Level of messaging - **Interior**.

LOCATION: Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (Refer to 6 for specific color)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
- 8 Back panel: 3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

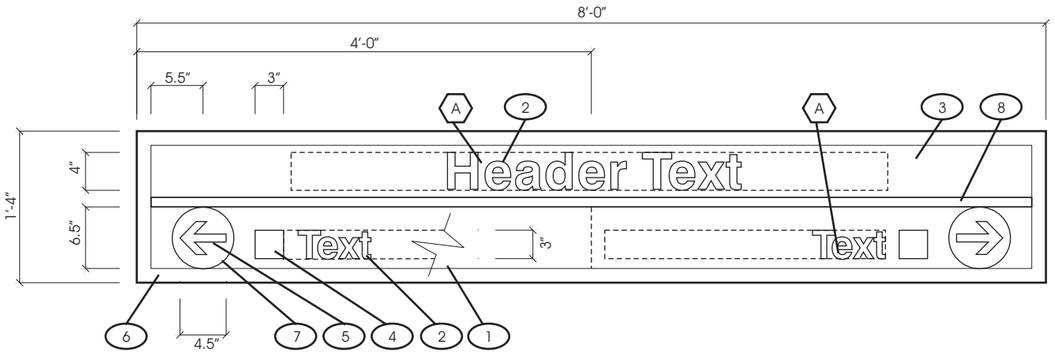
ARROWS: 6"x 4.25" (Refer to Section 2.4.1)
MOUNTING: Overhead suspended.
ILLUMINATION: Sign will be internally illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
6. Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8" Ballast France 688 DR

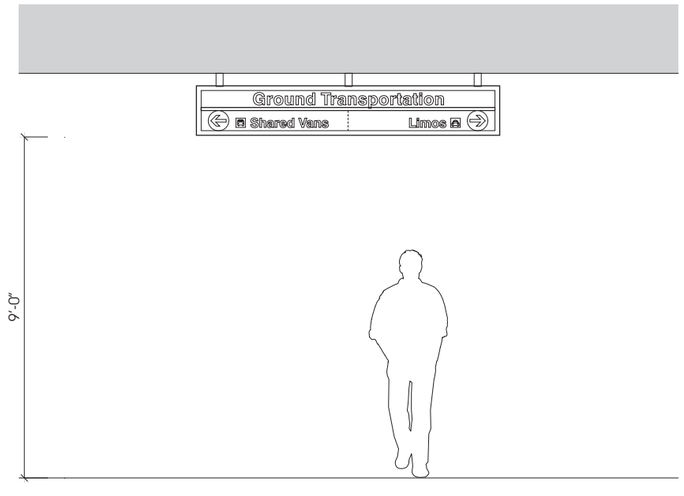
Directional Signs - Primary 3.5.1

#	Revision	Date



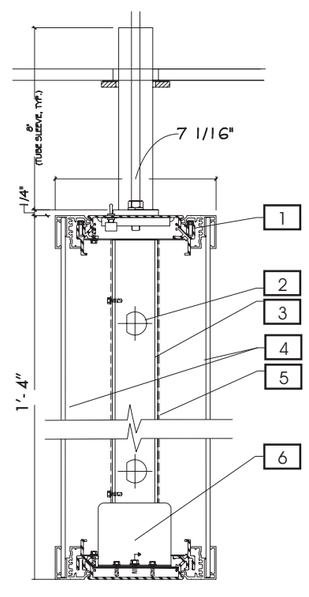
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Interior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 205

DESCRIPTION: Pedestrian Two directional - One Level of messaging - **Interior**.

LOCATION: Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (Refer to 6 for specific color)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle:3M Opaque Film (Dark Gray) #7725-41
- 8 Back panel:3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

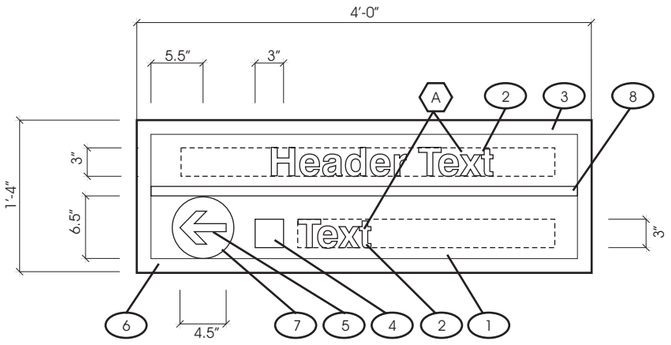
ARROWS: 6"x 4.25" (Refer to Section 2.4.1)
MOUNTING: Overhead suspended
ILLUMINATION: Sign will be internally illuminated
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
6. Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8" Ballast France 688 DR

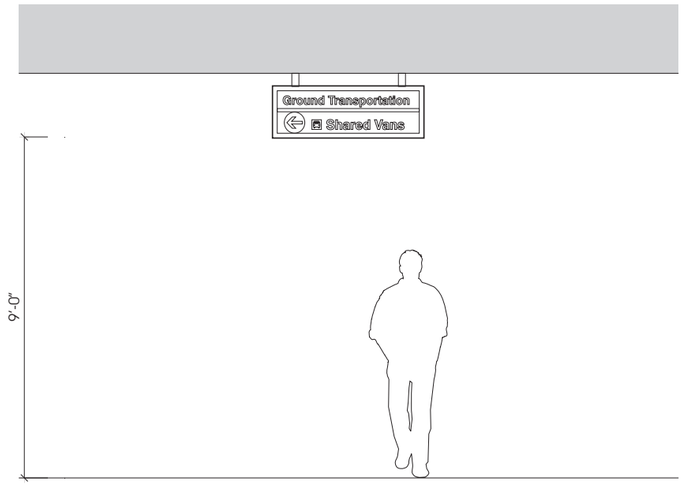
Directional Signs - Primary 3.5.1

#	Revision	Date



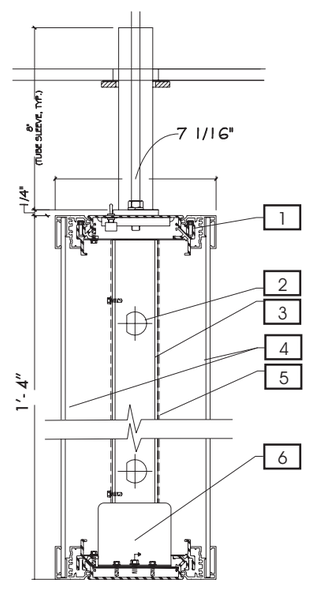
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Interior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 206

DESCRIPTION: Pedestrian One directional - One Level of messaging - **Interior**.

LOCATION: Primary circulation corridors perpendicular to the main pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (Refer to 6 for specific color)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
- 8 Back panel: 3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 6"x 4.25" (Refer to Section 2.4.1)
MOUNTING: Overhead suspended.
ILLUMINATION: Sign will be internally illuminated
REMARKS: Refer to Section 2.5 for vinyl specifications.

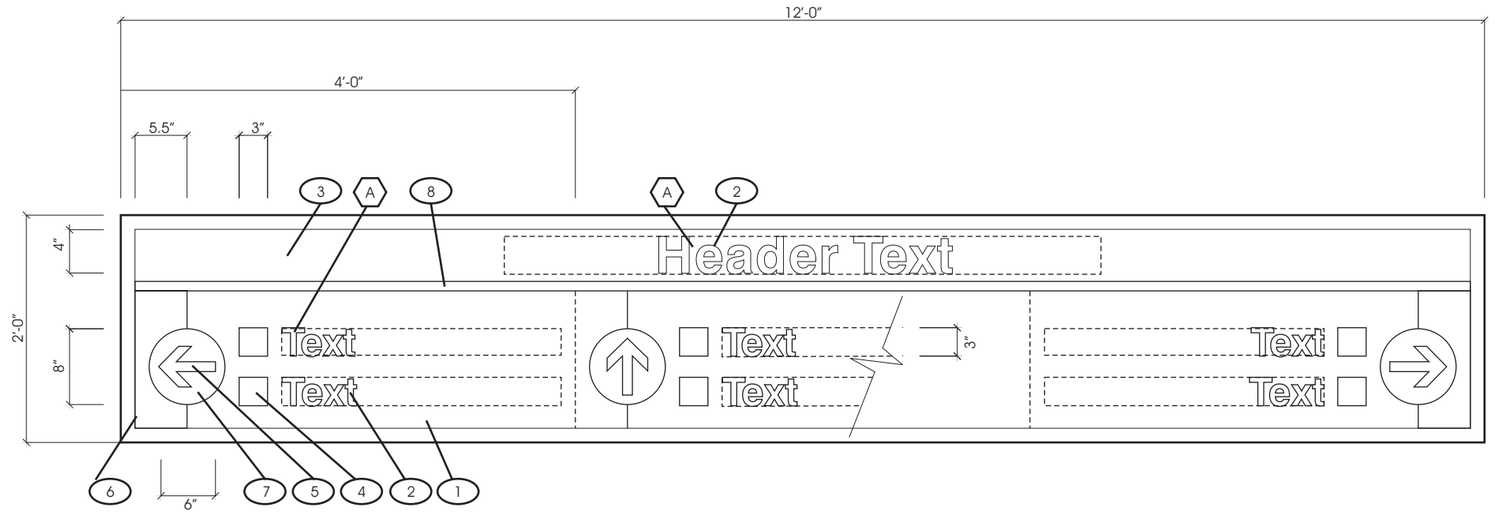
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR

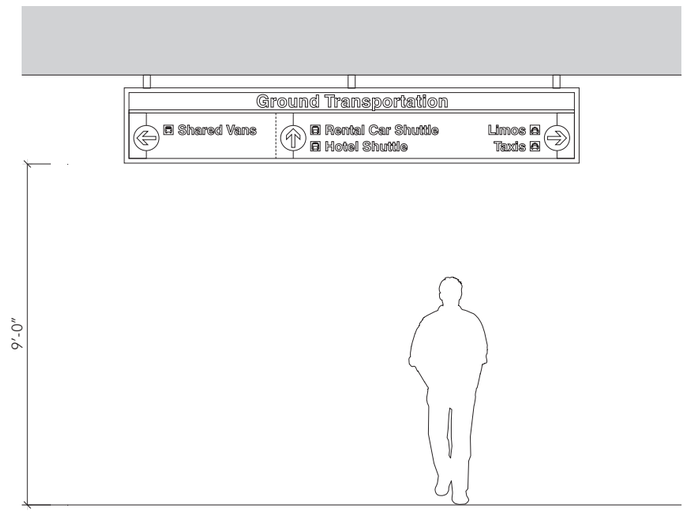
Directional Signs - Primary 3.5.1

#	Revision	Date



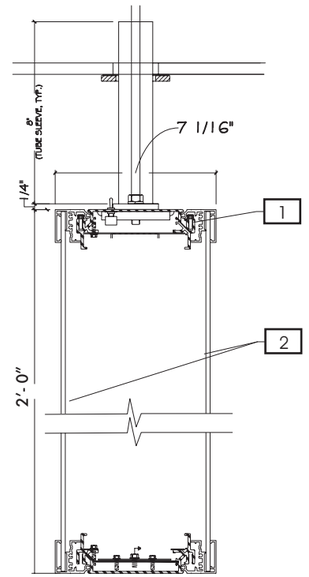
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 207

DESCRIPTION: Pedestrian Three directional - Two Levels of messaging - **Exterior.**

LOCATION: Used at curbside perpendicular to traffic flow coming out of the Terminal.

MATERIALS: Fabricated aluminum frame structure.

LETTERING:
- (A) Swiss721 BT Bold
- (B) N/A
- (C) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: 3M Opaque Film or approved equal (Refer to 6 for specific color)
4. Symbol: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
8. Back Panel: 3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 6"x 4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

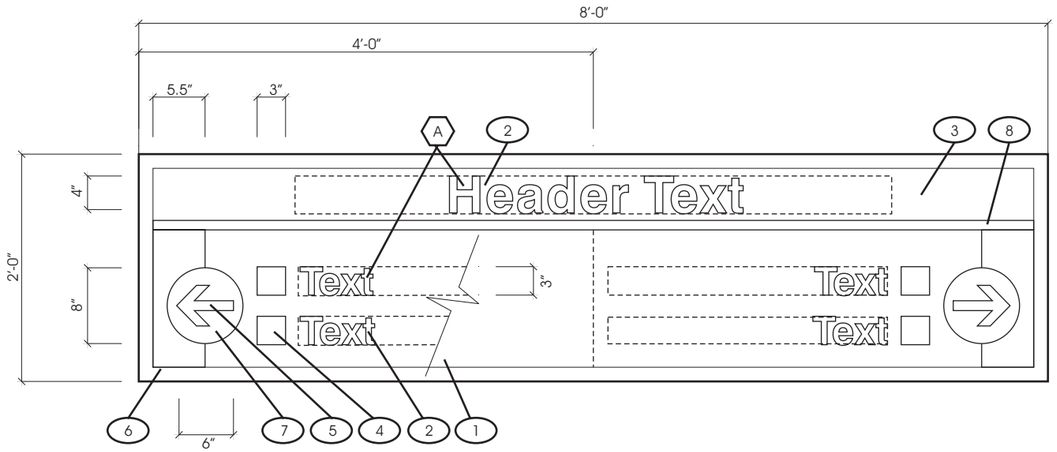
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT

Directional Signs - Primary 3.5.1

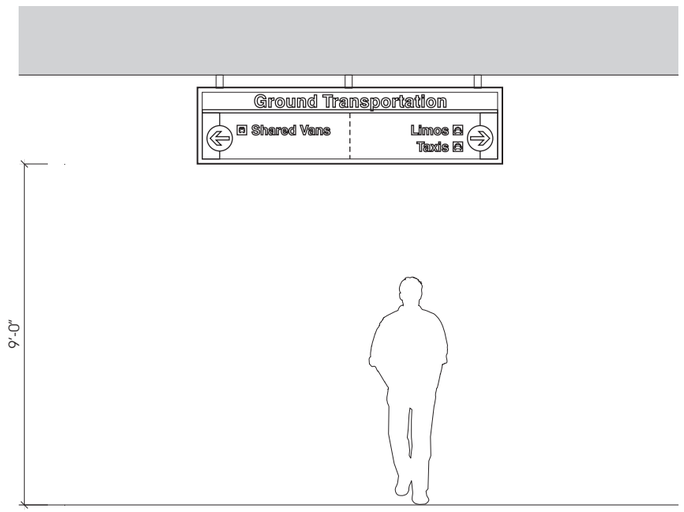
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



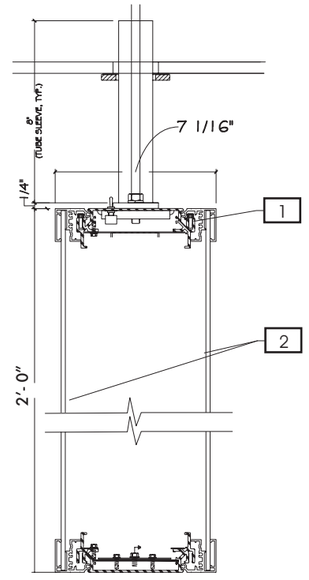
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 208

DESCRIPTION: Pedestrian Two directional - Two Levels of messaging **- Exterior.**

LOCATION: Used at curbside perpendicular to traffic flow coming out of the Terminal.

MATERIALS: Fabricated aluminum frame structure.

LETTERING:

- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: 3M Opaque Film or approved equal (Refer to 6 for specific color)
4. Symbol: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
8. Back Panel: 3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 6"x 4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

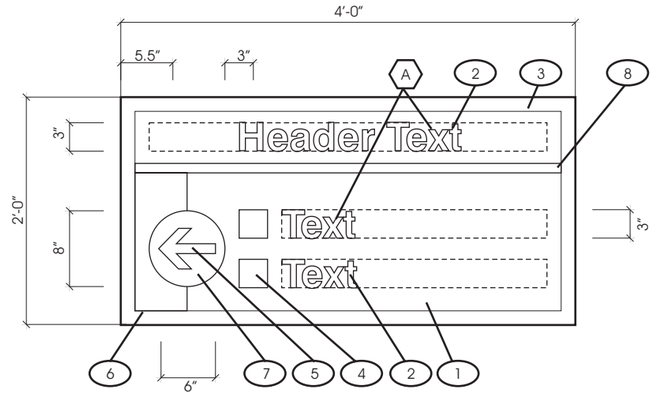
ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

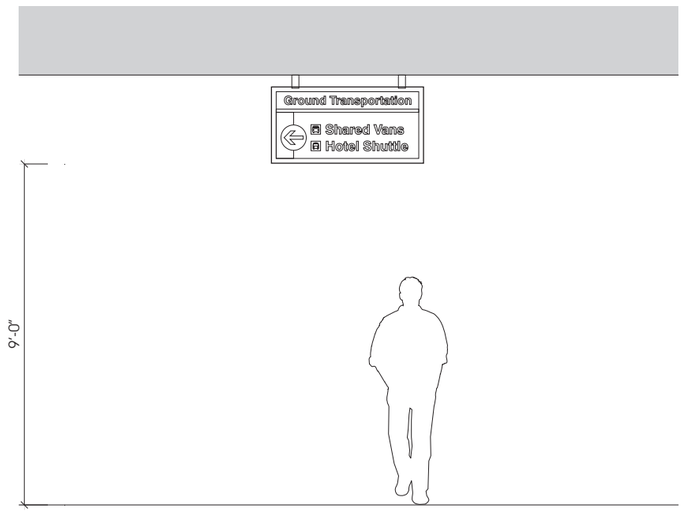
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT

#	Revision	Date



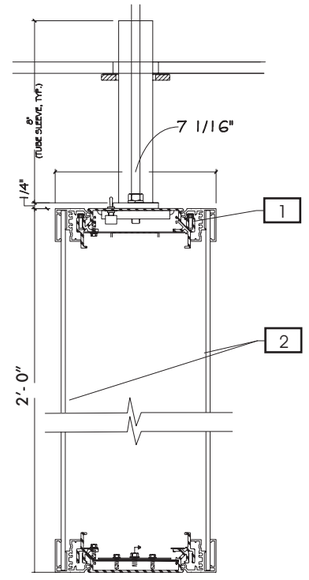
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 209

DESCRIPTION: Pedestrian One directional - Two Levels of messaging **- Exterior.**

LOCATION: Used at curbside perpendicular to traffic flow coming out of the Terminal.

MATERIALS: Fabricated aluminum frame structure.

LETTERING:

- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: 3M Opaque Film or approved equal (Refer to 6 for specific color)
4. Symbol: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
8. Back Panel: 3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 6"x 4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

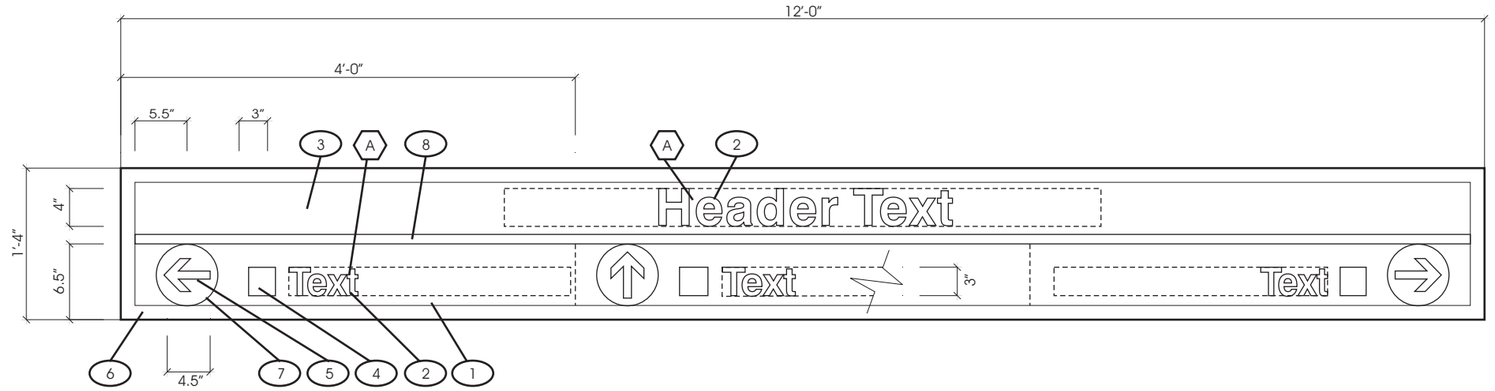
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT

Directional Signs - Primary 3.5.1

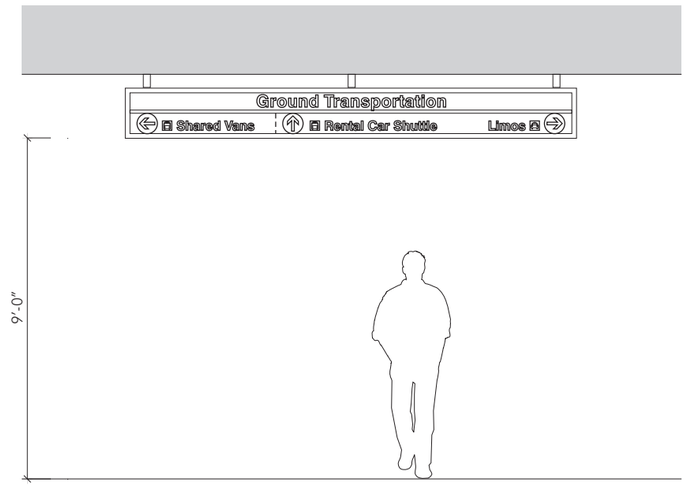
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



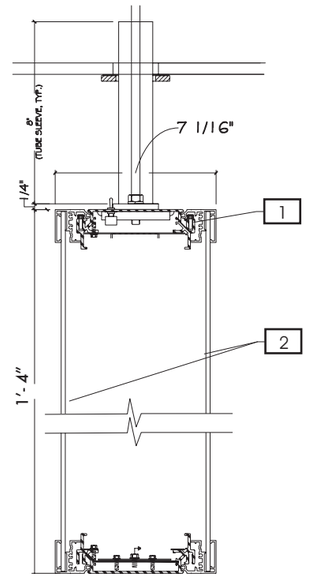
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 210

DESCRIPTION: Pedestrian Three directional - One Level of messaging **- Exterior.**

LOCATION: Used at curbside perpendicular to traffic flow coming out of the Terminal.

MATERIALS: Fabricated aluminum frame structure.

LETTERING:

- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: 3M Opaque Film or approved equal (Refer to 6 for specific color)
4. Symbol: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle:3M Opaque Film (Dark Gray) #7725-41
8. Back Panel:3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 6"x 4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

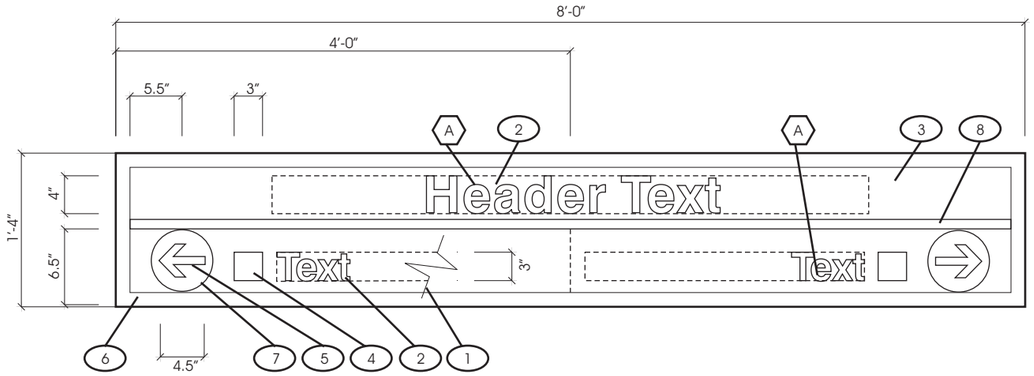
ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

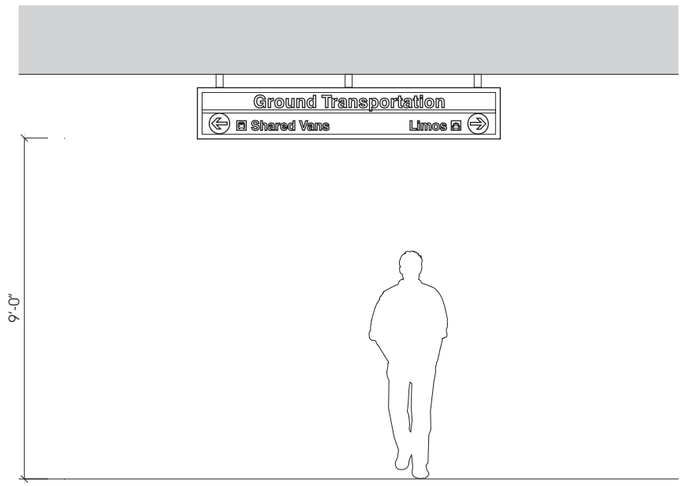
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT

#	Revision	Date



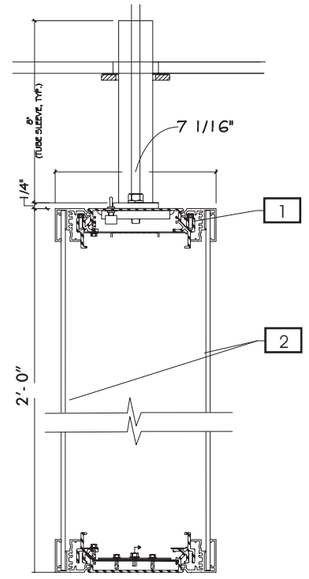
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 211

DESCRIPTION: Pedestrian Two directional - One Level of messaging **- Exterior.**.

LOCATION: Used at curbside perpendicular to traffic flow coming out of the Terminal.

MATERIALS: Fabricated aluminum frame structure.

LETTERING:

- (A) Swiss721 BT Bold
- (B) N/A
- (C) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: 3M Opaque Film or approved equal (Refer to 6 for specific color)
4. Symbol: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle:3M Opaque Film (Dark Gray) #7725-41
8. Back Panel:3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 6"x 4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

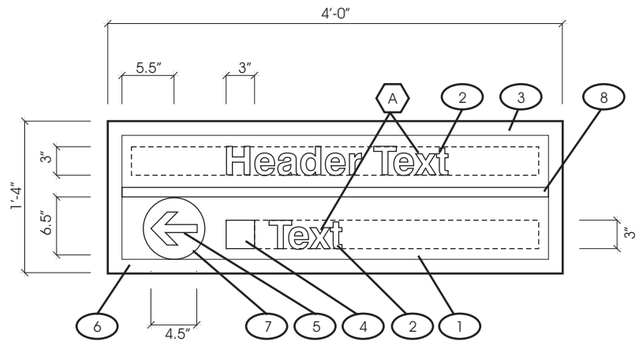
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT

Directional Signs - Primary 3.5.1

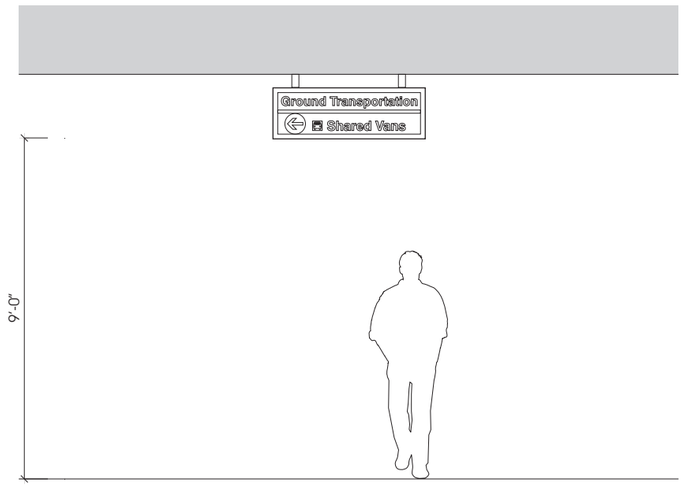
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



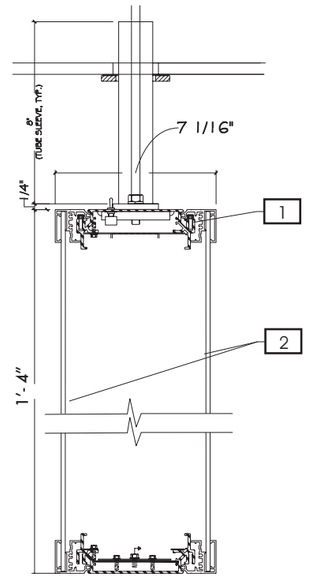
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 212

DESCRIPTION: Pedestrian One directional - One Level of messaging **- Exterior.**

LOCATION: Used at curbside perpendicular to traffic flow coming out of the Terminal.

MATERIALS: Fabricated aluminum frame structure.

LETTERING:

- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: 3M Opaque Film or approved equal (Refer to 6 for specific color)
4. Symbol: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle:3M Opaque Film (Dark Gray) #7725-41
8. Back Panel: 3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 6"x 4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

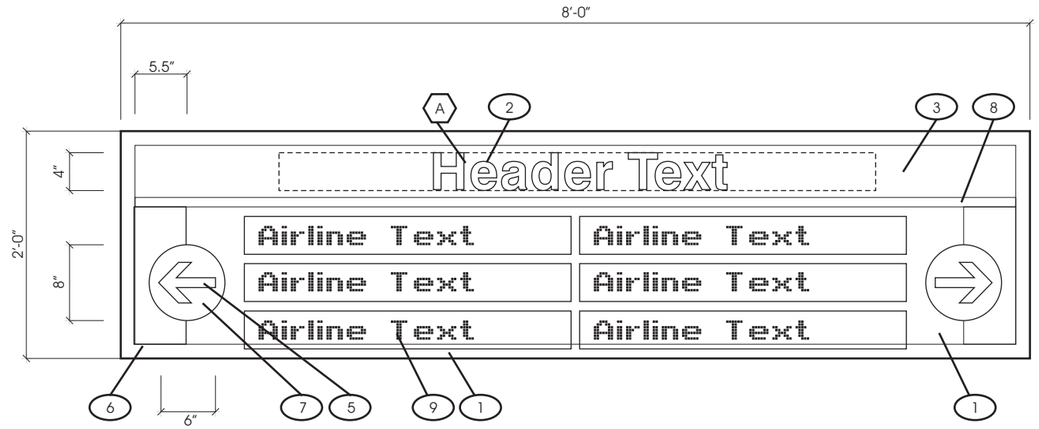
ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

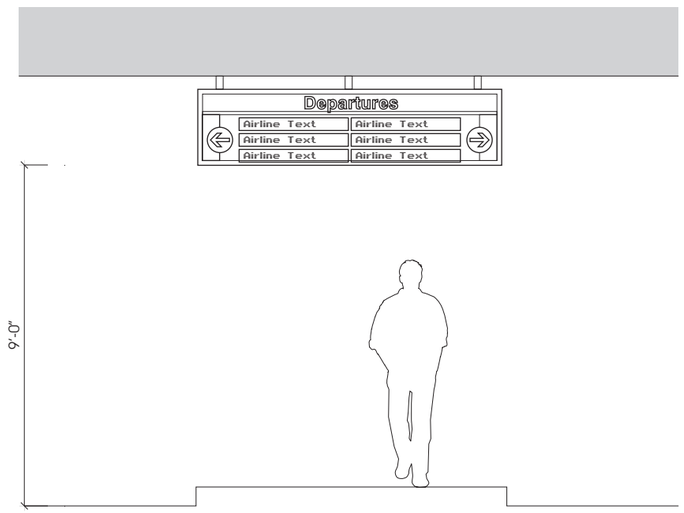
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT

#	Revision	Date



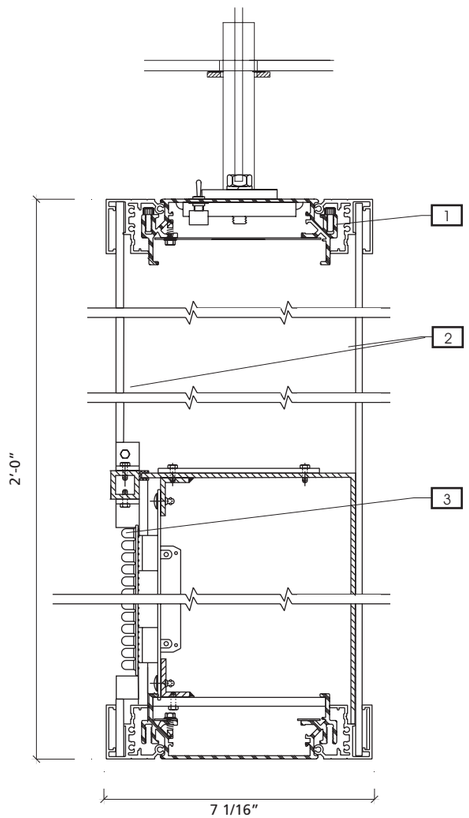
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S.

Overhead Suspended ST - 213

DESCRIPTION: Pedestrian Airline listing Directional - **Exterior.**

LOCATION: Used at the curbside between the facilities of Terminal B perpendicular to the main pedestrian traffic flow.

MATERIALS: Fabricated aluminum frame structure.

LETTERING:

- (A) Swiss721 BT Bold
- (B) N/A
- (C) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
- (3) Band: 3M Opaque Film or approved equal (Refer to 6 for specific color)
- (4) Symbol: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
- (5) Arrow: N/A
- (6) Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (7) Arrow circle:3M Opaque Film (Dark Gray) #7725-41
- (8) Back panel:3M Opaque Film (Dark Gray) #7725-41
- (9) Text: VMS Red reading

GRAPHICS: N/A

ARROWS: 6"x 4.25" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be Non Illuminated.

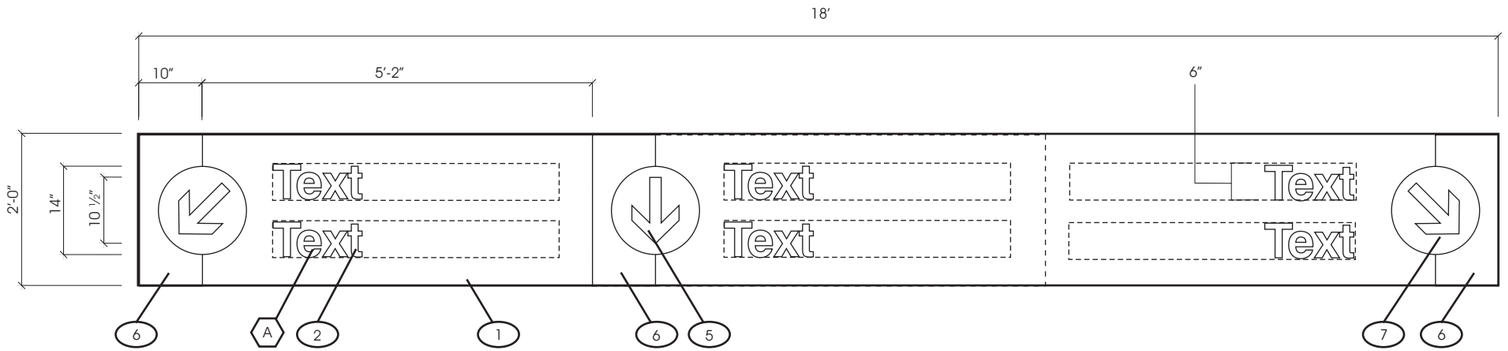
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

- [1] # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
- [2] 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
- [3] LED/VMS Module

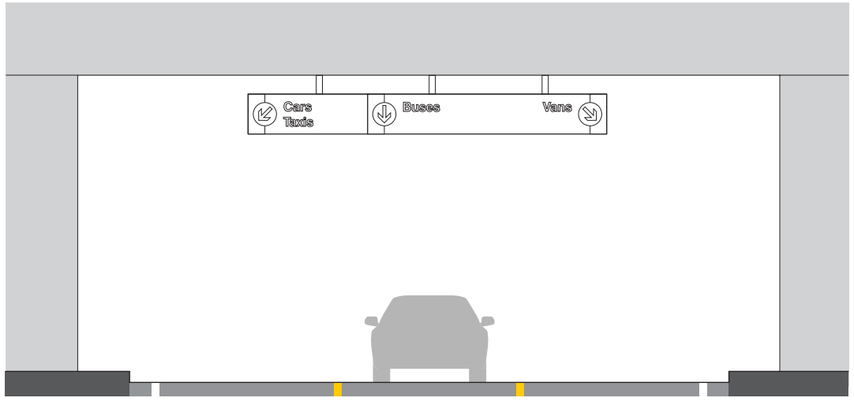
Directional Signs - Primary 3.5.1

#	Revision	Date



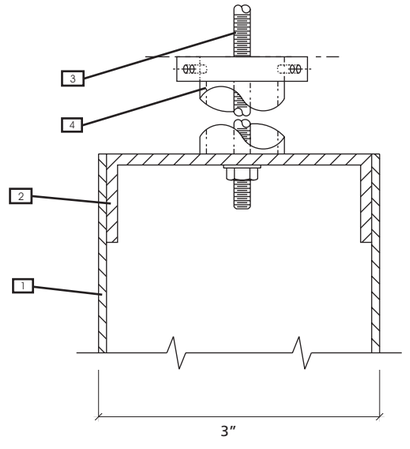
SIGN FACE LAYOUT

Scale: ½"=1'-0"



ELEVATION (Exterior)

Scale: NTS



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 214

DESCRIPTION: Vehicular: Three directional - Two Levels of messaging **- Exterior.**

LOCATION: Used at curbside as approaching from the roadways.

MATERIALS: Fabricated stainless steel panel.

LETTERING:

- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: N/A
4. Symbol: N/A
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
8. Back panel: N/A
9. Text: N/A

GRAPHICS: N/A

ARROWS: 10 ½" x7 1/4" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

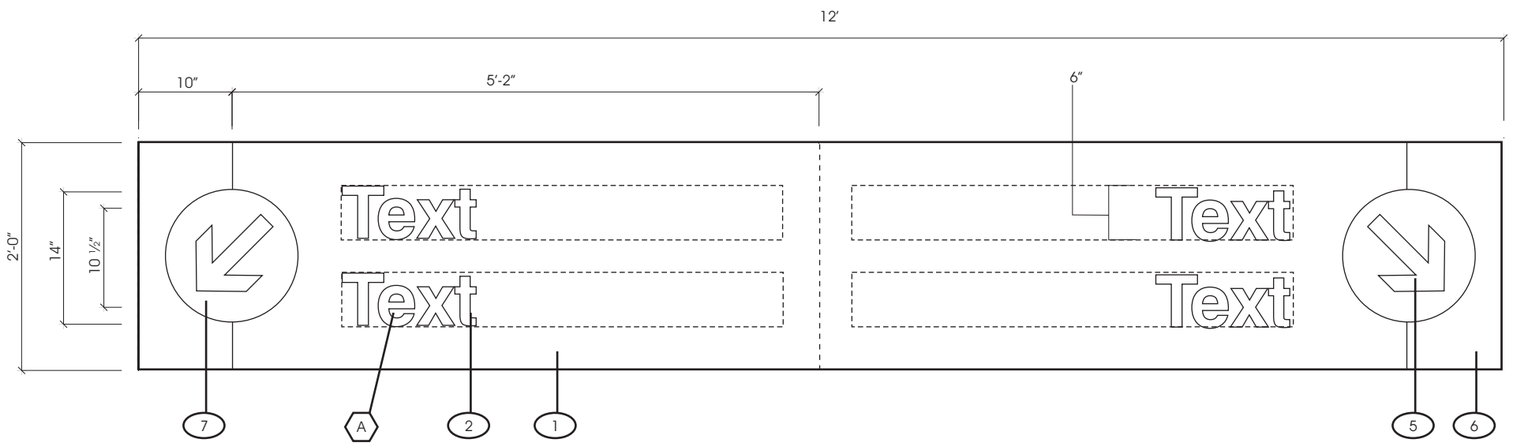
NOTES:

1. .090" Aluminum face..
2. 2 ½"x 1 ½"x .125 Aluminum channel frame with mitered and welded corners .
3. 1/2" Dia. Threaded rod sign support (by others).
4. 2 1/2" Dia. X .125" wall aluminum tube.

Directional Signs - Primary 3.5.1

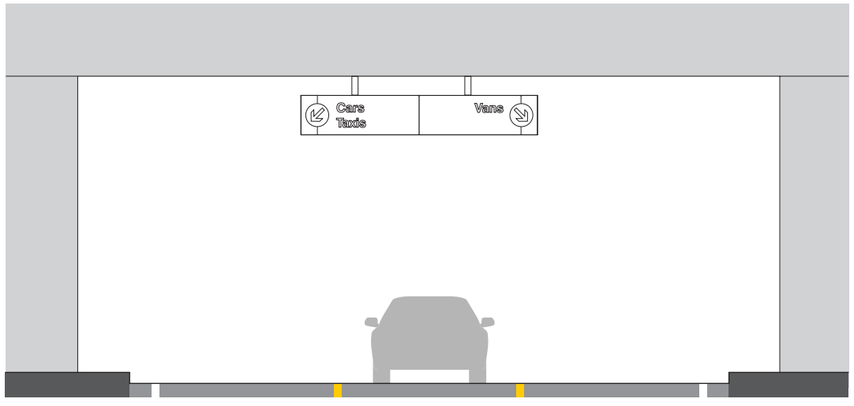
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



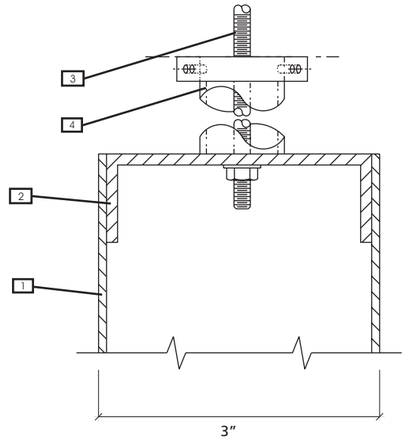
SIGN FACE LAYOUT

Scale: 3/4=1'-0"



ELEVATION (Exterior)

Scale: NTS



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 215

DESCRIPTION: Vehicular: Two directional - Two Levels of messaging - **Exterior.**

LOCATION: Used at curbside as approaching from the roadways.

MATERIALS: Fabricated stainless steel panel.

LETTERING:

- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: N/A
4. Symbol: N/A
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
8. Back panel: N/A
9. Text: N/A

GRAPHICS: N/A

ARROWS: 10 ½" x 7 1/4" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

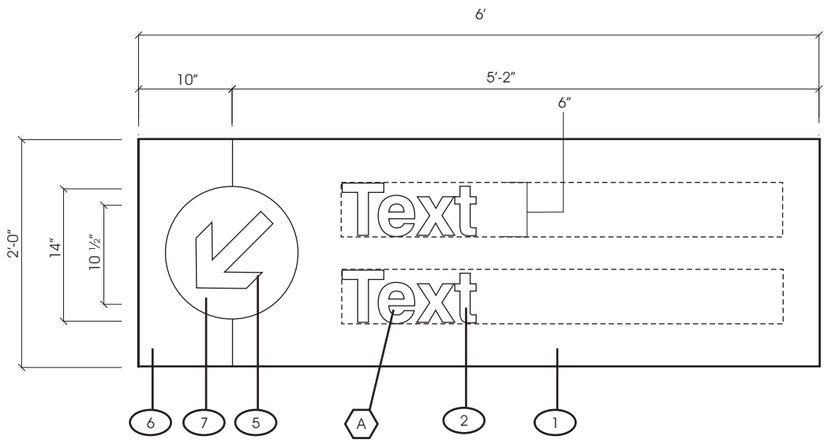
NOTES:

1. .090" Aluminum face..
2. 2 ½"x 1 ½"x .125 Aluminum channel frame with mitered and welded corners .
3. 1/2" Dia. Threaded rod sign support (by others).
4. 2 1/2" Dia. X .125" wall aluminum tube.

Directional Signs - Primary 3.5.1

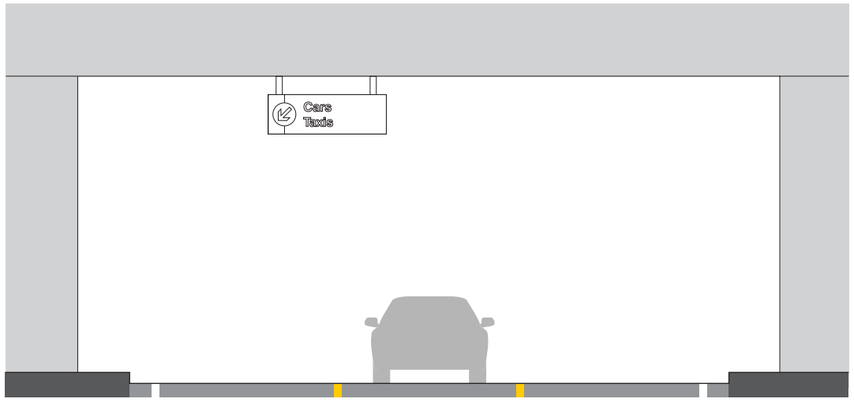
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



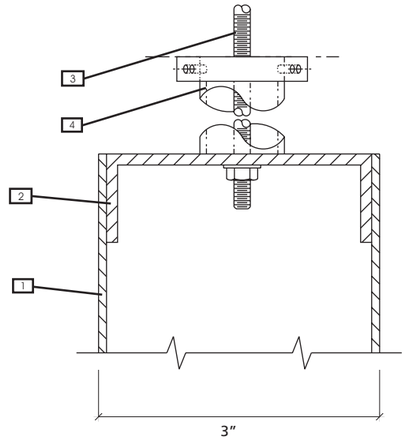
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: NTS



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 216

DESCRIPTION: Vehicular: One directional - Two Levels of messaging - **Exterior.**

LOCATION: Used at curbside as approaching from the roadways.

MATERIALS: Fabricated stainless steel panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: N/A
4. Symbol: N/A
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
8. Back panel: N/A
9. Text: N/A

GRAPHICS: N/A

ARROWS: 10 ½" x 7 1/4" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

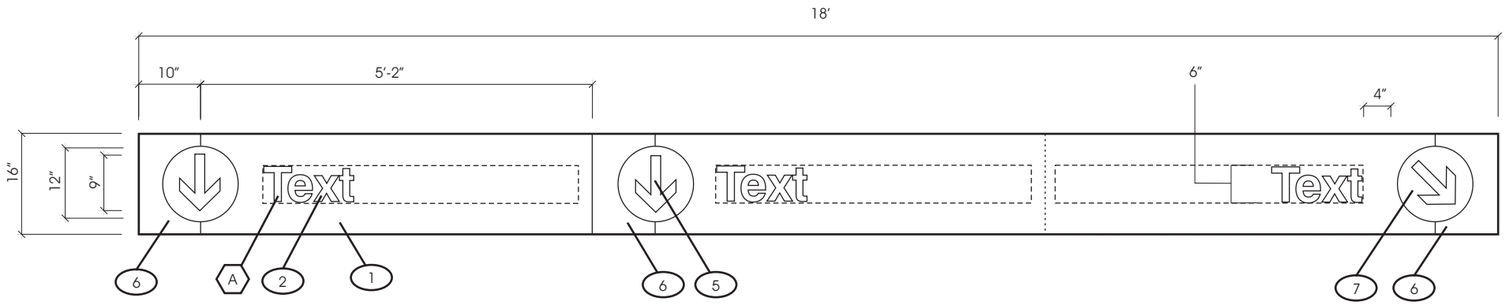
NOTES:

1. .090" Aluminum face..
2. 2 ½"x 1 ½"x .125 Aluminum channel frame with mitered and welded corners .
3. 1/2" Dia. Threaded rod sign support (by others).
4. 2 1/2" Dia. X .125" wall aluminum tube.

Directional Signs - Primary 3.5.1

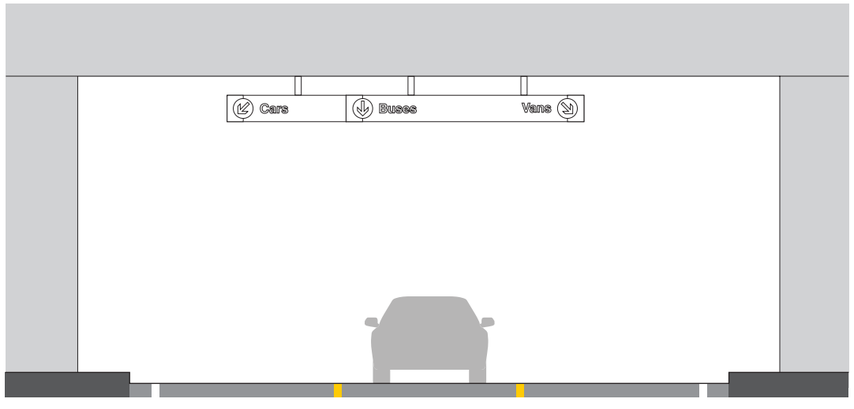
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



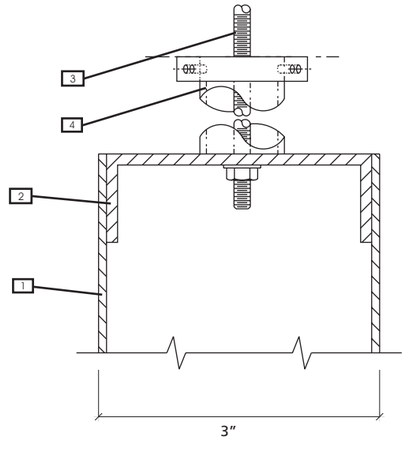
SIGN FACE LAYOUT

Scale: ½"=1'-0"



ELEVATION (Exterior)

Scale: NTS



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 217

DESCRIPTION: Vehicular: Three directional - One Levels of messaging - **Exterior.**

LOCATION: Used at curbside as approaching from the roadways.

MATERIALS: Fabricated stainless steel panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
- 3 Band: N/A
- 4 Symbol: N/A
- 5 Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
- 8 Back panel: N/A
- 9 Text: N/A

GRAPHICS: N/A

ARROWS: 9" x 6 ½" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

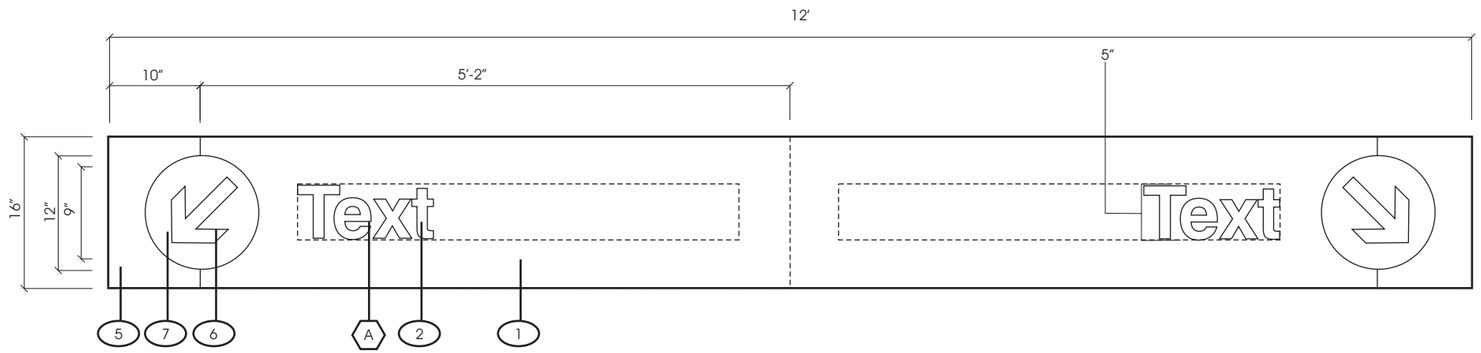
NOTES:

1. .090" Aluminum face..
2. 2 ½"x 1 ½"x .125 Aluminum channel frame with mitered and welded corners .
3. 1/2" Dia. Threaded rod sign support (by others).
4. 2 1/2" Dia. X .125" wall aluminum tube.

Directional Signs - Primary 3.5.1

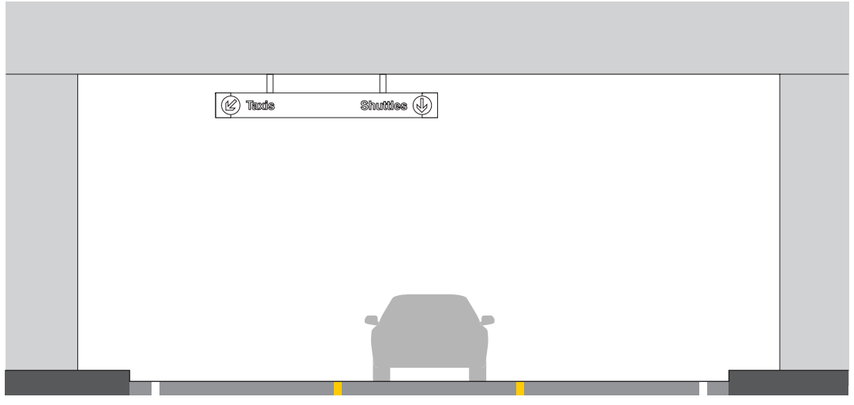
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



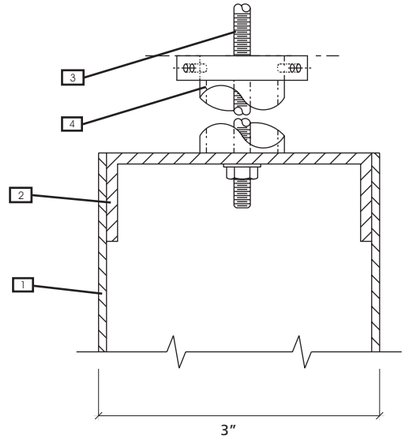
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: NTS



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 218

DESCRIPTION: Vehicular: Two directional - One Level of messaging - **Exterior.**

LOCATION: Used at curbside as approaching from the roadways.

MATERIALS: Fabricated stainless steel panel.

LETTERING:

- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: N/A
4. Symbol: N/A
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
8. Back panel: N/A
9. Text: N/A

GRAPHICS: N/A

ARROWS: 9" x 6 ½" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

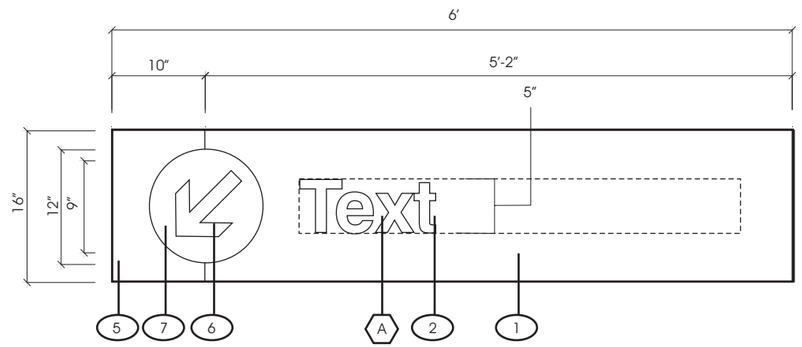
NOTES:

1. .090" Aluminum face..
2. 2 ½"x 1 ½"x .125 Aluminum channel frame with mitered and welded corners .
3. 1/2" Dia. Threaded rod sign support (by others).
4. 2 1/2" Dia. X .125" wall aluminum tube.

Directional Signs - Primary 3.5.1

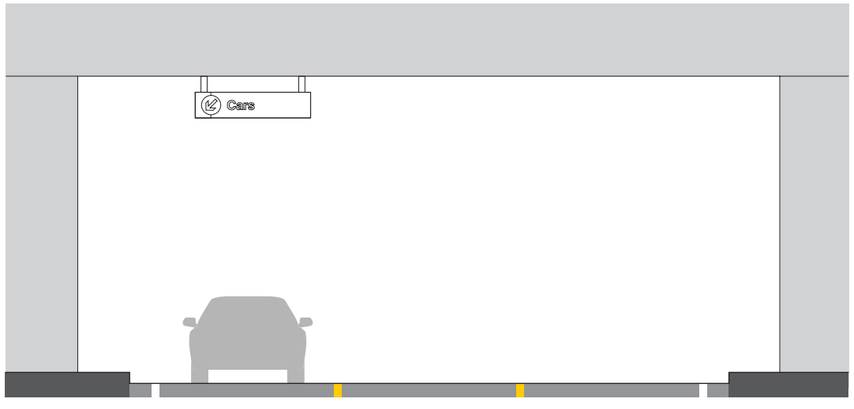
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



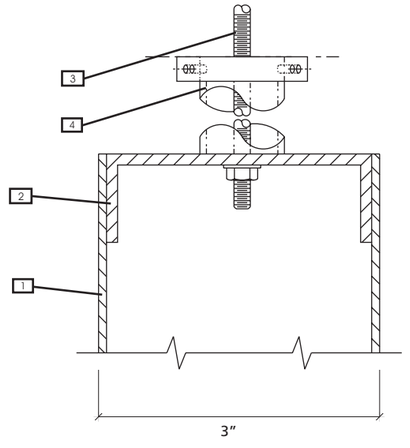
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: NTS



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 219

DESCRIPTION: Vehicular One directional - One Level of messaging - **Exterior.**

LOCATION: Used in primary crosswalks between terminals perpendicular to main pedestrian traffic flow.

MATERIALS: Fabricated stainless steel panel.

LETTERING:

- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: N/A
4. Symbol: N/A
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
8. Back panel: N/A
9. Text: N/A

GRAPHICS: N/A

ARROWS: 9" x 6 ½" (Refer to Section 2.4.1)

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

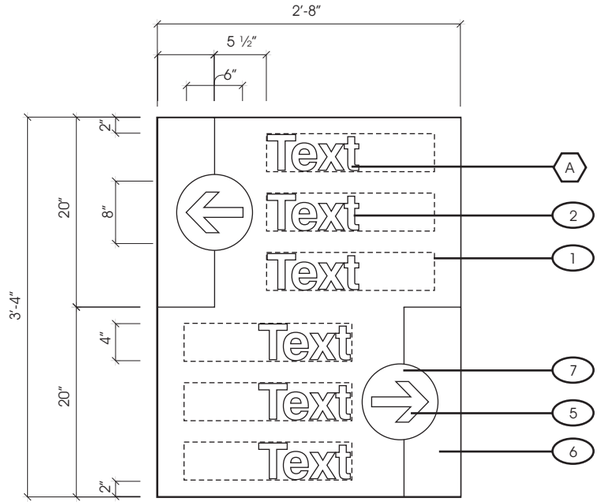
NOTES:

1. .090" Aluminum face..
2. 2 ½"x 1 ½"x .125 Aluminum channel frame with mitered and welded corners .
3. 1/2" Dia. Threaded rod sign support (by others).
4. 2 1/2" Dia. X .125" wall aluminum tube.

Directional Signs - Primary 3.5.1

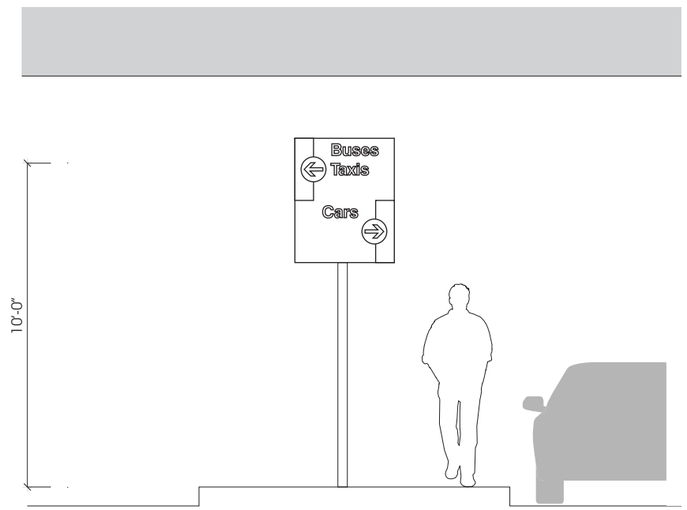
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



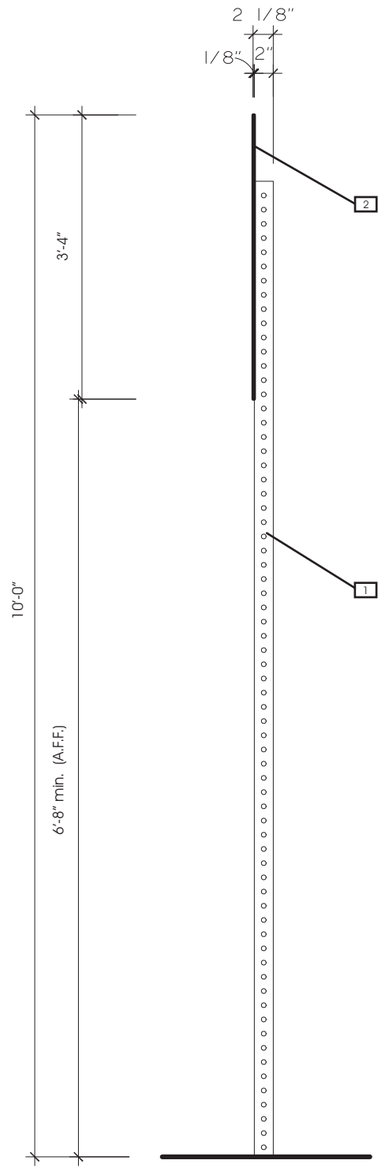
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: NTS



DETAIL - Side View (For Design Intent Only)

Scale: N.T.S.

Post Mount ST - 220

DESCRIPTION: Vehicular Secondary Directional - **Exterior.**

LOCATION: Used at curbside to separate traffic.

MATERIALS: Fabricated stainless steel panel.

LETTERING:

- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: N/A
4. Symbol: N/A
5. Arrow: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
8. Back panel: N/A
9. Text: N/A

GRAPHICS: N/A

ARROWS: 6" x 5 1/4" (Refer to Section 2.4.1)

MOUNTING: Post Mount.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

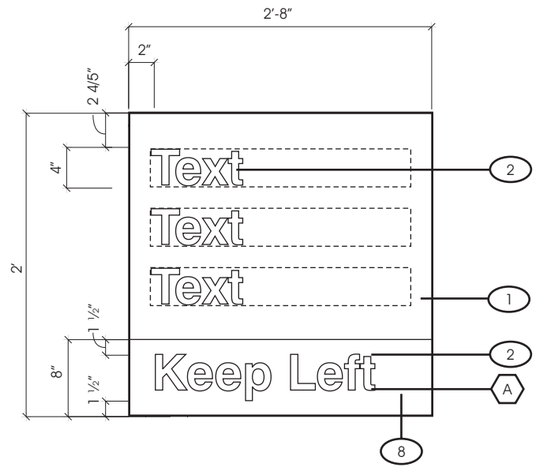
NOTES:

1. 2" galvanized perforated square tube.
2. .125" aluminum sign face. Weld threaded stud on second surface. Bolt mount to pole.

Directional Signs - Secondary 3.5.1

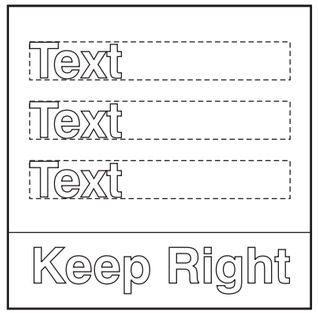
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



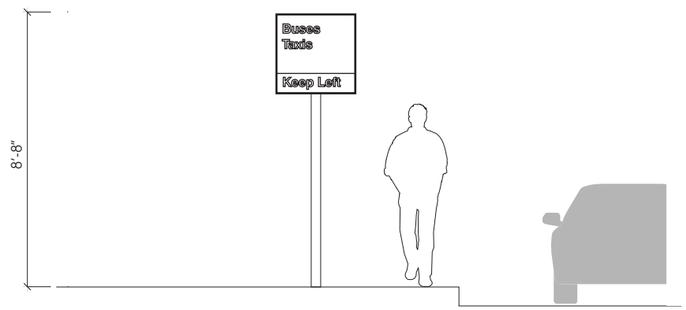
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



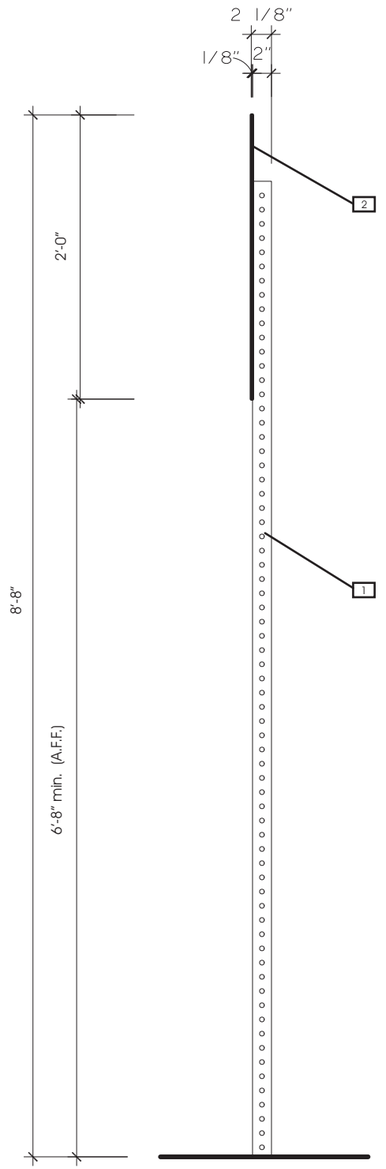
ALTERNATE SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL - Side View (For Design Intent Only)

Scale: N.T.S.

Post Mount ST - 221

DESCRIPTION: Vehicular Secondary Directional - **Exterior.**

LOCATION: Used before curbside to regulate and/or separate traffic.

MATERIALS: Fabricated stainless steel panel.

LETTERING:

- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: N/A
4. Symbol: N/A
5. Arrow: N/A
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: N/A
8. Back panel: 3M Opaque Film (Dark Gray) #7725-41
9. Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Post Mount.

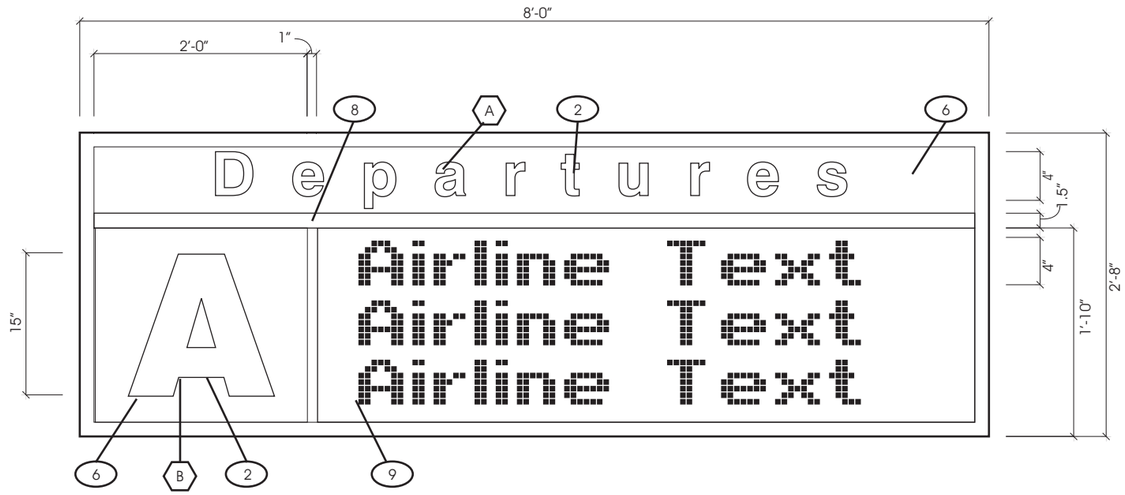
ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

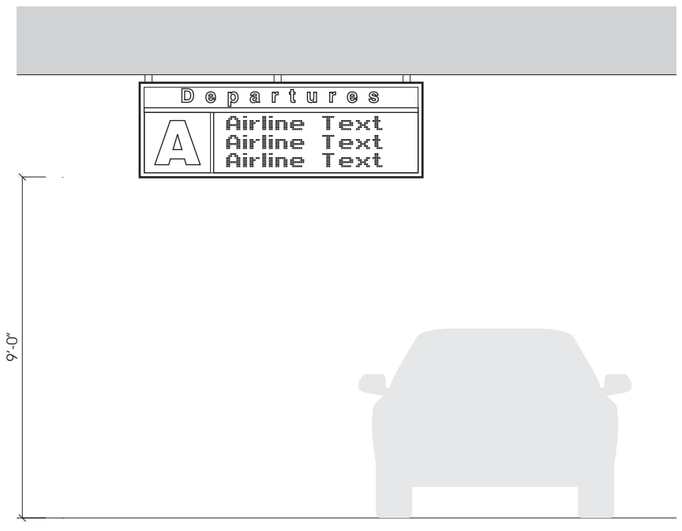
1. 2" galvanized perforated square tube.
2. .125" aluminum sign face. Weld threaded stud on second surface. Bolt mount to pole.

#	Revision	Date



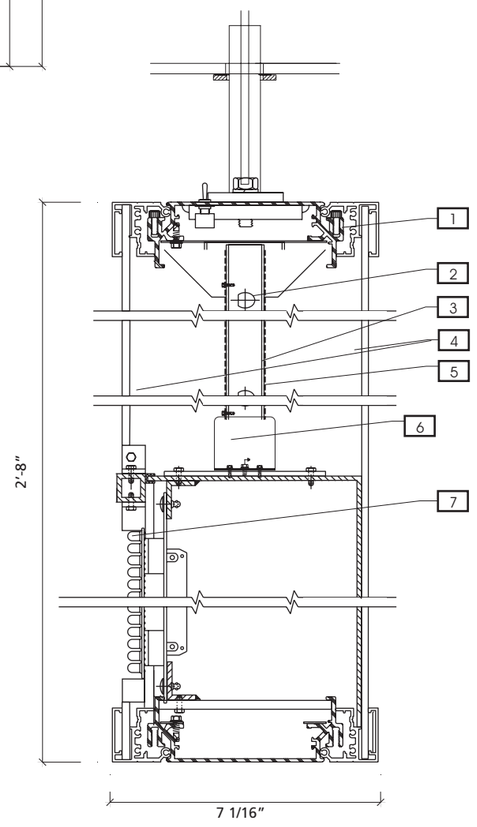
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S.

Overhead Suspended ST - 251

DESCRIPTION: Terminal ID - Airline Listing **-Exterior.**

LOCATION: Used at curbside in every terminal entrance perpendicular to vehicular traffic.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- (A) Swiss721 BT Bold
- (B) Swiss721 Blk BT
- (C) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: Translucent Acrylic (White)
- (3) Band: Translucent Acrylic (Refer to 6 for specific color)
- (4) Symbol: Translucent Acrylic (White)
- (5) Arrow: N/A
- (6) Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (7) Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
- (8) Back panel:3M Opaque Film (Dark Gray) #7725-41
- (9) Text: VMS Red reading

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Overhead suspended.

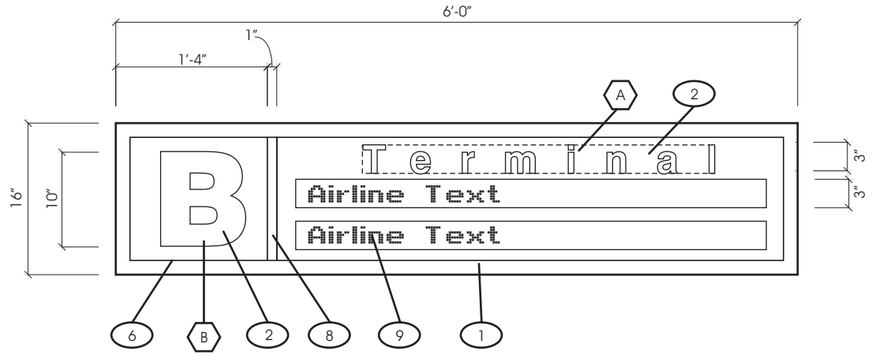
ILLUMINATION: Sign will be internally illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:
- [1] # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
- [2] D-Punch for fluor sockets
- [3] 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
- [4] 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
- [5] .040" alum formed raceway cover, socket Support
  Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
- [6] Ballast France 688 DR
- [7] LED/VMS Module

Identification Signs - Primary 3.5.2

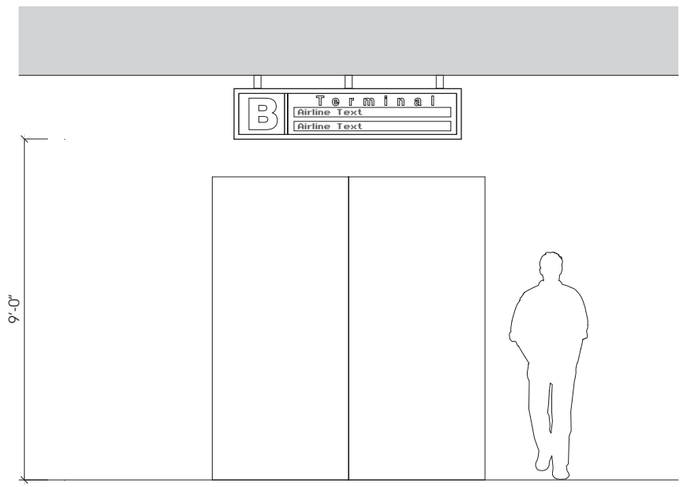
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



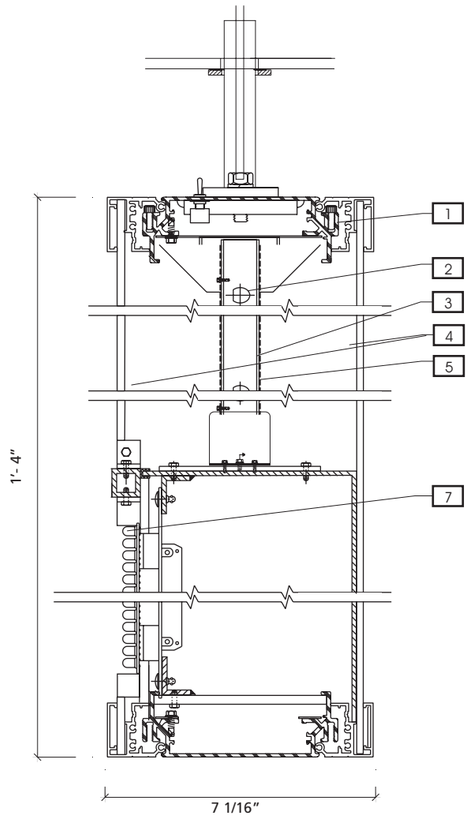
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S.

Overhead Suspended ST - 252

DESCRIPTION: Terminal ID - Airline Listing **- Exterior.**

LOCATION: Used at curbside over terminal door entrances in Terminal B and C.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: N/A
- 4 Symbol: N/A
- 5 Arrow: N/A
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle:3M Opaque Film (Dark Gray) #7725-41
- 8 Back panel:3M Opaque Film (Dark Gray) #7725-41
- 9 Text: VMS Red reading

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.

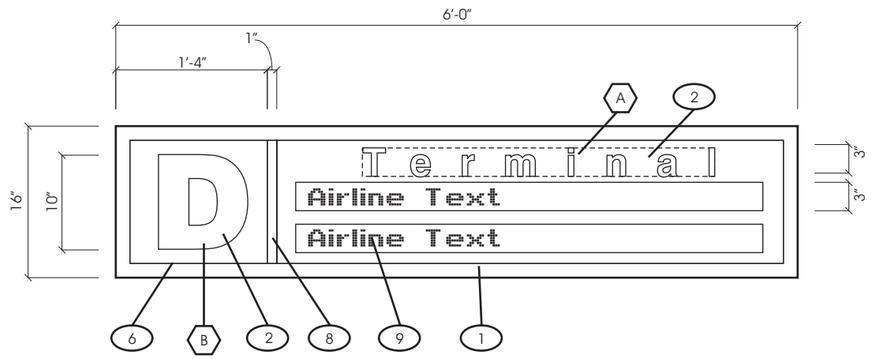
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR
7. LED/VMS Module

Identification Signs - Primary 3.5.2

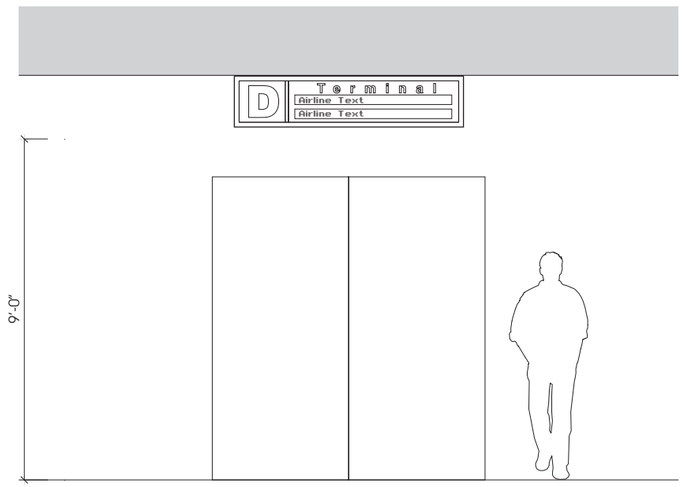
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



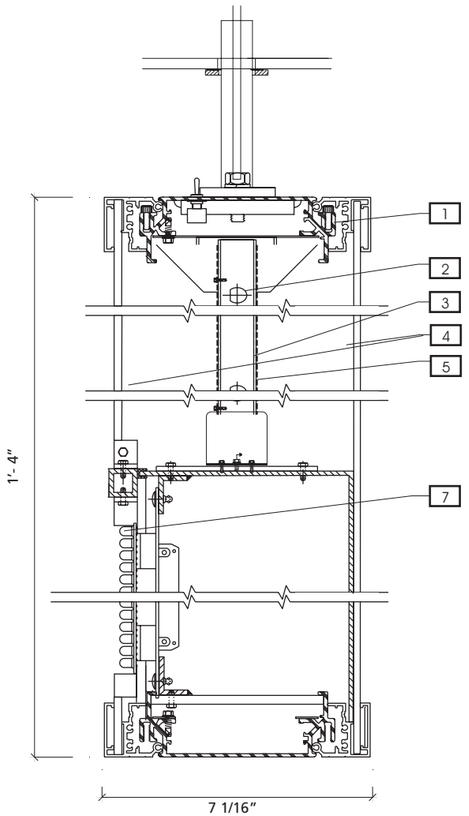
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S.

Soffit Mounted — ST - 253

DESCRIPTION: Terminal ID - Airline Listing **- Exterior.**

LOCATION: Used at curbside over terminal door entrances in Terminal A and D.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: N/A
- 4 Symbol: N/A
- 5 Arrow: N/A
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
- 8 Back panel: 3M Opaque Film (Dark Gray) #7725-41
- 9 Text: VMS Red reading

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Overhead suspended.

ILLUMINATION: Sign will be internally illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.

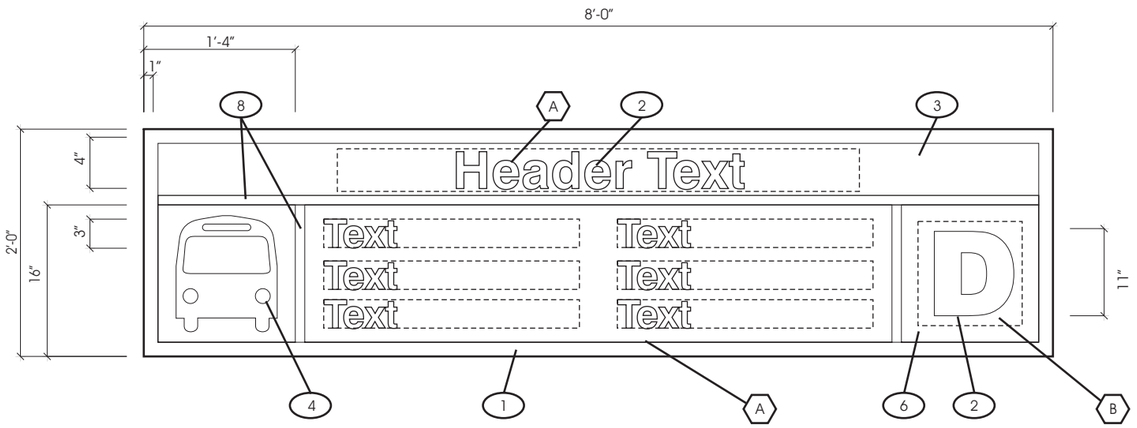
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
6. Ballast France 688 DR
7. LED/VMS Module

Identification Signs - Primary 3.5.2

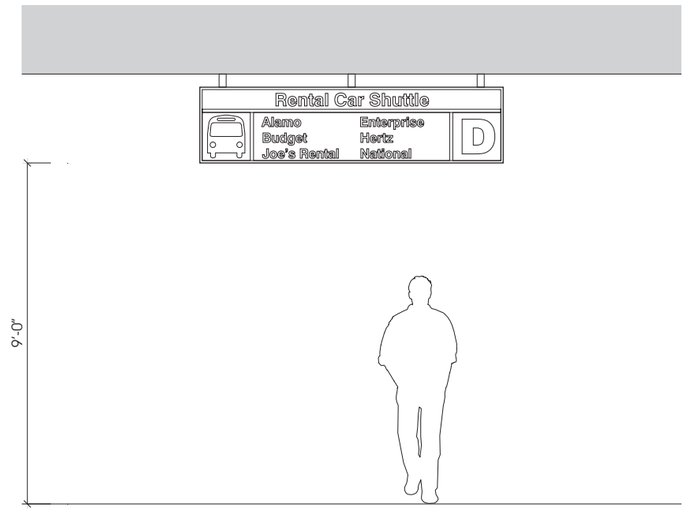
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



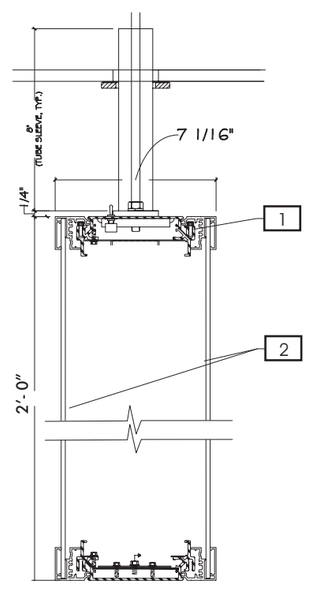
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Overhead Suspended ST - 254

DESCRIPTION: Ground Transportation ID **- Exterior.**

LOCATION: Used at curbside to identify Ground Transportation functions perpendicular to vehicular traffic.

MATERIALS: Fabricated aluminum frame structure.

LETTERING:

- (A) Swiss721 BT Bold
- (B) Swiss721 Blk BT
- (C) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
- (3) Band: N/A
- (4) Symbol:Diamond Grade VIP Reflective Film #3990 or approved equal (White)
- (5) Arrow: N/A
- (6) Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (7) Arrow circle:3M Opaque Film (Dark Gray) #7725-41
- (8) Back panel:3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Overhead suspended.

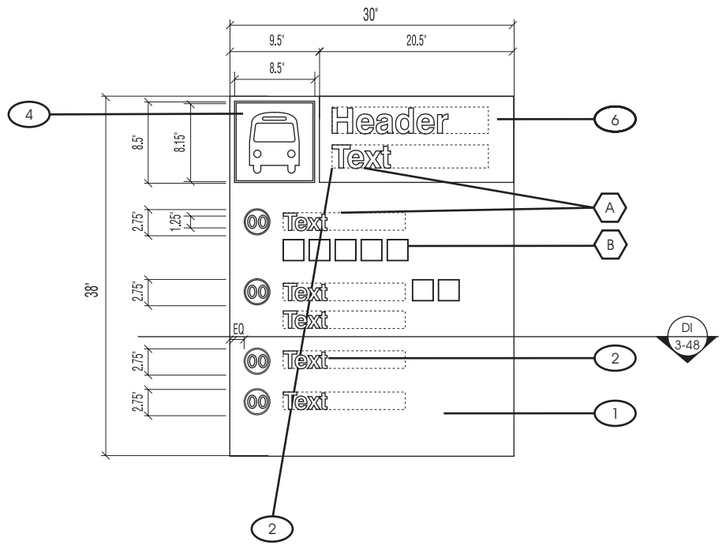
ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

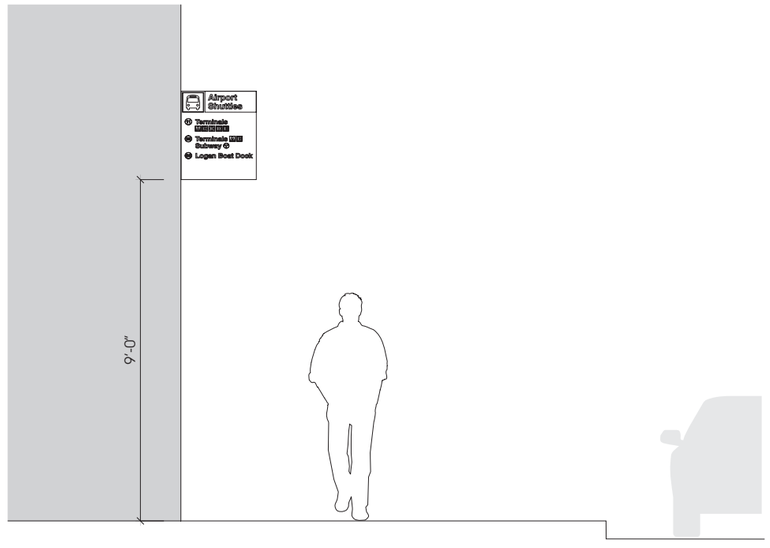
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT

#	Revision	Date



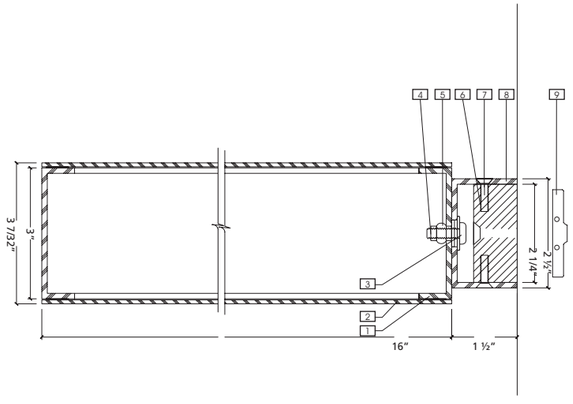
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: 1/4"=1'-0"



DETAIL - D1 (For Design Intent Only)

Scale: N.T.S.

Flag Mount ST - 255

DESCRIPTION: Pedestrian: Ground Transportation ID **- Exterior.**

LOCATION: Used at curbside to identify Ground Transportation functions perpendicular to vehicular traffic.

MATERIALS: Fabricated stainless steel panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: 3M Opaque Film or approved equal (Refer to 6 for specific color)
4. Symbol: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
5. Arrow: N/A
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: N/A
8. Back panel: N/A
9. Text: N/A

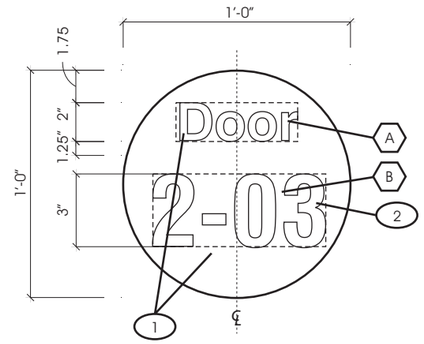
GRAPHICS: N/A
ARROWS: N/A
MOUNTING: Flag Mount.
ILLUMINATION: Sign will be Non Illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. 3" X 1 X 1/8" alum channel frame.
2. .090" alum face
3. 1/4 - 20 X 3/4" SS PH CS MC 91772A540 (X3)
4. 1/4" SS flat washer MC 92141A029 (X3)
5. 1/4" - 20 RIVNUT (X3)
6. 2- 1/4" X 1" X 12" PVC
7. 10 -32 X 3/4" SS FH MS tamper resistant
8. 2- ½"X 1-1/2" X 1/8" alum channel
9. 1/4- 20 toggler MC 97802A219

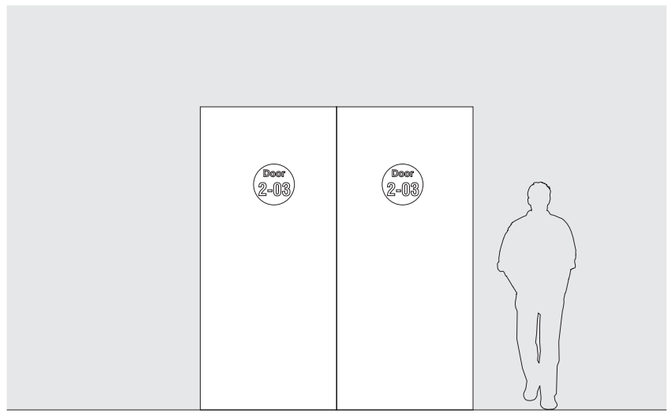
Identification Signs - Secondary 3.5.2

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Interior/Exterior)

Scale: 1/4"=1'-0"

Surface Applied ST - 256

DESCRIPTION: Door ID - Interior/Exterior.

LOCATION: Used at terminal entrance doors. Applied to each side of the door (Facing the interior and the exterior of the terminal).

MATERIALS: Screen printed 3M Controltac Plus Graphic Film Series 160 (or approved equal).

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Cn BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Text: White 3M Controltac Plus Graphic Film Series 160 (or approved equal).
- 2 Terminal I.D background: Screen printed 3M Controltac Plus Graphic Film Series 160 (or approved equal).
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Surface Application

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

PRINTING:

Screen print graphic onto the 3M Controltac Plus Graphic Film Series 160 (or approved equal).

CUTTING:

The following are common methods for this film: Hot kiss cutting, Flat-bed electronic cutting, Drum-type electronic cutting, Guillotine, Hand cut, or Cold and hot steel-rule die cutting.

ADHESIVE:

The pressure-activated adhesive on this film allows you to position and reposition it on the application substrate when tacked with light hand pressure. Applying firm pressure bonds the adhesive to the substrate, and by design, destroys the positionability feature.

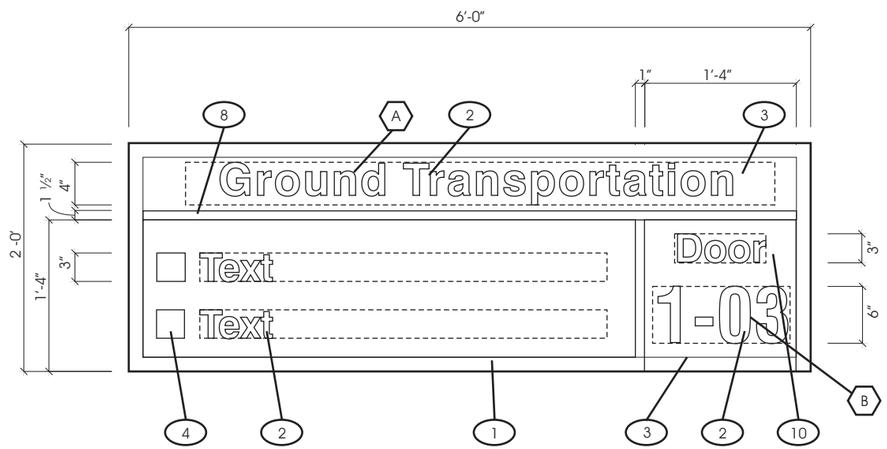
APPLICATION:

Sign to be applied on each side of the door.

MOUNTING INFORMATION

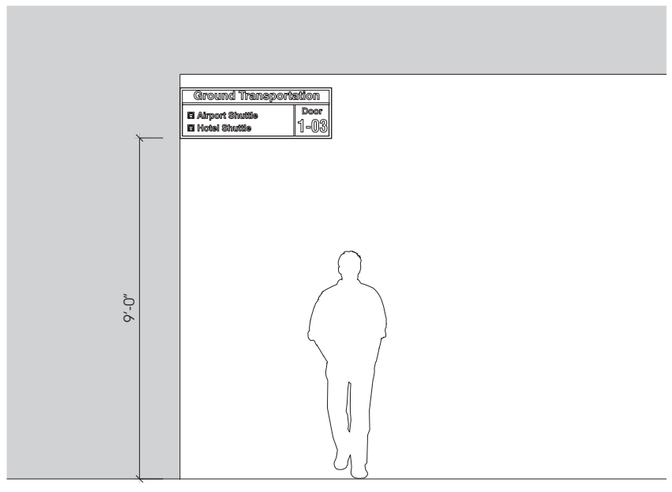
Scale: N.T.S.

#	Revision	Date



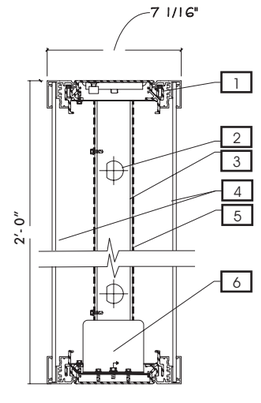
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Interior)

Scale: 1/4"=1'-0"



DETAIL (For Design Intent Only)

Scale: N.T.S

Flag Mount ST - 257

DESCRIPTION: Ground Transportation door ID - **Interior.**

LOCATION: Used inside terminals at entrance doors perpendicular to pedestrian traffic flow.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- (A) Swiss721 BT Bold
- (B) Swiss721 Cn BT
- (C) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: Translucent Acrylic (White)
- (3) Band: Translucent Acrylic (Refer to 6 for specific color)
- (4) Symbol: Translucent Acrylic (White)
- (5) Arrow: N/A
- (6) Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (7) Arrow circle: 3M Opaque Film (Dark Gray) #7725-41
- (8) Back panel:3M Opaque Film (Dark Gray) #7725-41
- (9) Text: N/A

GRAPHICS: N/A
ARROWS: N/A
MOUNTING: Flag Mount.
ILLUMINATION: Sign will be internally illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.

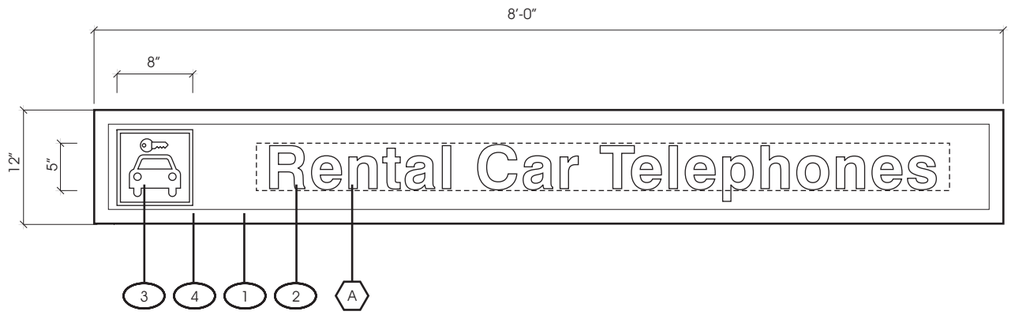
NOTES:

[1] # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
[2] D-Punch for fluor sockets
[3] 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
[4] 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
[5] .040" alum formed raceway cover, socket Support

Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
[6] Ballast France 688 DR

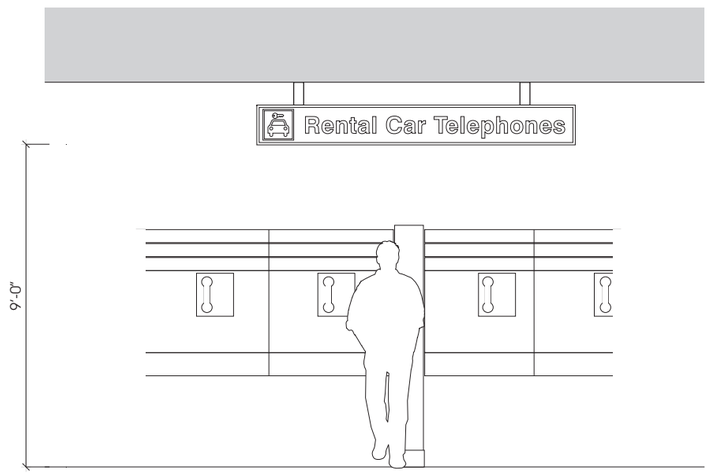
Identification Signs - Secondary 3.5.2

#	Revision	Date



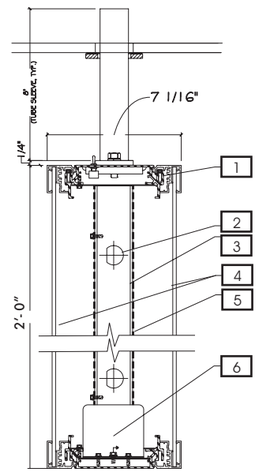
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Interior)

Scale: NTS



DETAIL (For Design Intent Only)

Scale: N.T.S

Ceiling Suspended ST - 258

DESCRIPTION: Rental Car Telephone ID **- Interior.**

LOCATION: Rental Car Telephone booths.

MATERIALS: Extruded aluminum sign face structure with removable panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band:N/A
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: N/A
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: N/A
- 8 Back panel: N/A
- 9 Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be internally illuminated.

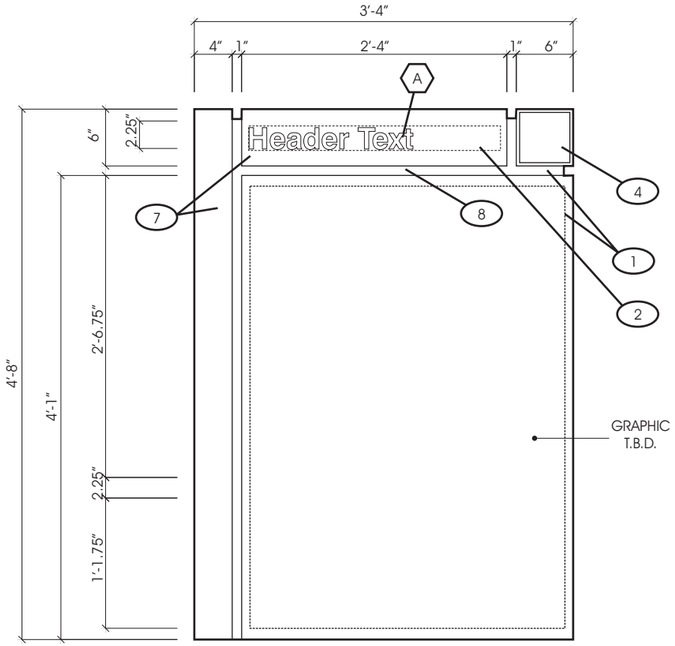
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT
5. .040" alum formed raceway cover, socket Support
6. Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8" Ballast France 688 DR

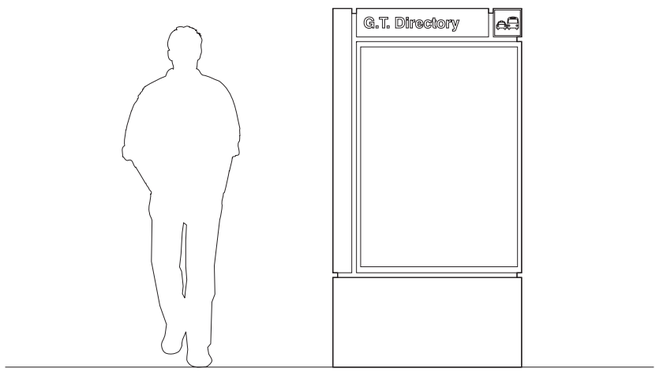
Identification Signs - Secondary 3.5.2

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: N.T.S.

Airport Directory

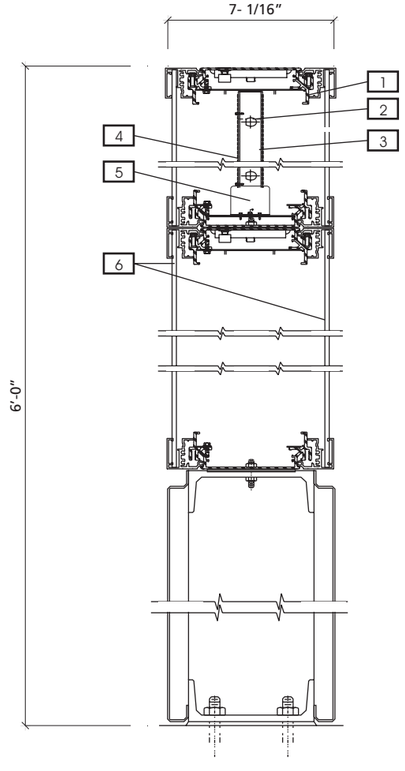
SIGN FACE LAYOUT - OPTION A

Terminal Directory

SIGN FACE LAYOUT - OPTION B

G.T. Directory

SIGN FACE LAYOUT - OPTION C



DETAIL (For Design Intent Only)

Scale: N.T.S.

Floor mount ST - 281

DESCRIPTION: Ground Transportation Directory - **Exterior.**

LOCATION: Used at Curbside for pedestrian use outside main circulation path.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
3. Band: N/A
4. Symbol: Diamond Grade VIP Reflective Film #3990 or approved equal (White)
5. Letter: N/A
6. Letter box: N/A
7. Header/Side Panel:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
8. Back panel:3M Opaque Film (Dark Gray) #7725-41

GRAPHICS: Final directory artwork by others.

ARROWS: N/A

MOUNTING: Floor mount.

ILLUMINATION: Sign will be Non Illuminated.
REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

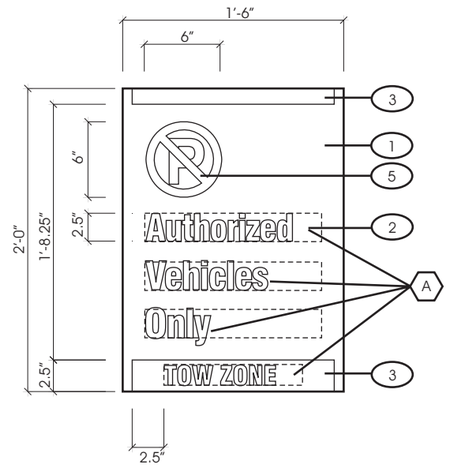
1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. 040" alum formed raceway cover, socket Support

   Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
5. Ballast France 688 DR
6. 3/16" signwhite polycarb faces mounted w/ 3M 4930 VHB FT

Informational-Primary/Secondary 3.5.3

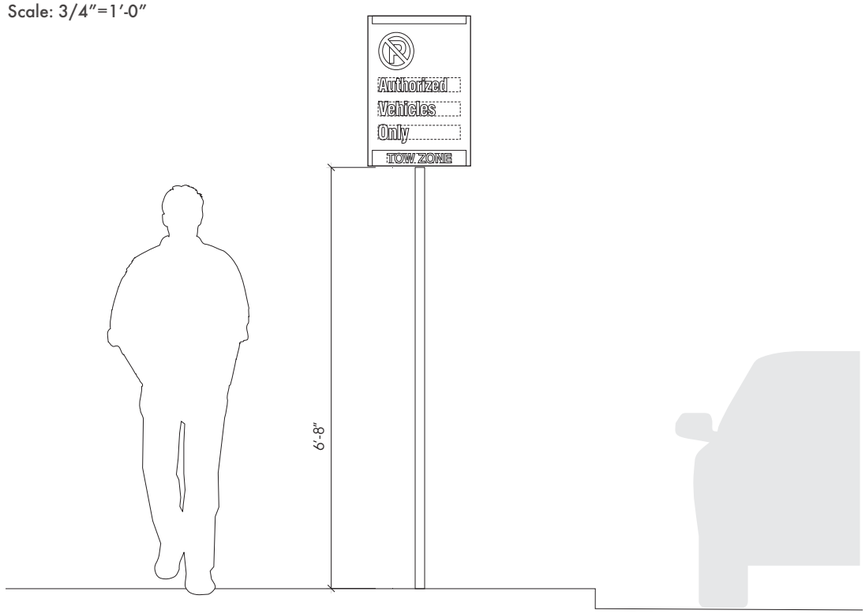
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



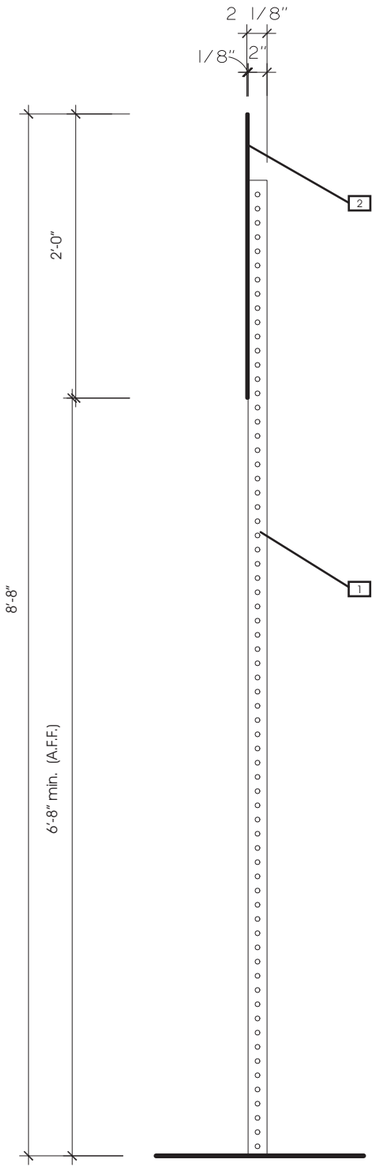
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: NTS



DETAIL - Side View (For Design Intent Only)

Scale: N.T.S.

Post Mount — ST - 282

DESCRIPTION: Regulatory - **Exterior.**

LOCATION: Terminal Curbside (Departure) and Ground Transportation (Arrival) areas.

MATERIALS: Fabricated stainless steel panel.

LETTERING:

- (A) Swiss721 BlkCn BT Bold
- (B) Swiss721 BT
- (C) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: 3M Diamond Grade VIP Reflective Film # 3990 or approved equal (White)
- (3) Band: 3M Diamond Grade VIP Reflective Film # 3992 or approved equal (Red)
- (4) Rule Line: N/A
- (5) Symbol: 3M Diamond Grade VIP Reflective(or approved equal)
  - Blue: Film# 3995
  - Red: Film #3992
  - White: Film # 3990

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Post Mount.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

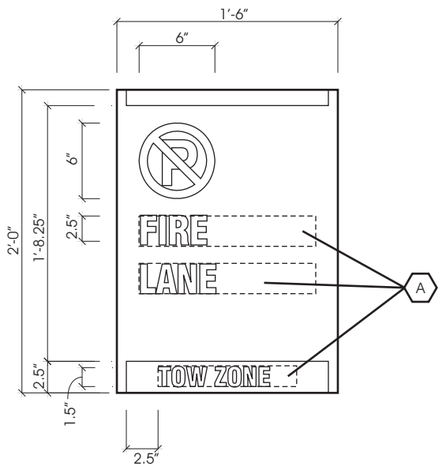
NOTES:

- [1] 2" galvanized perforated square tube.
- [2] .125" aluminum sign face. Weld threaded stud on second surface. Bolt mount to pole.

Informational - Primary /Secondary 3.5.3

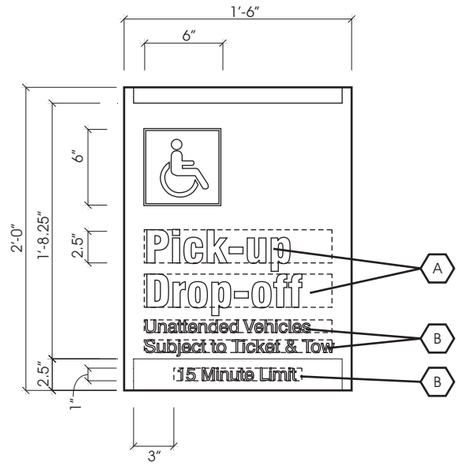
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



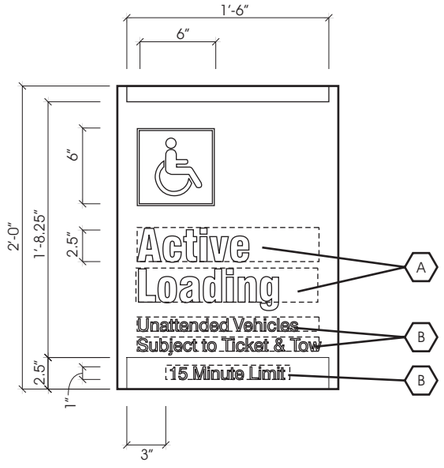
Alternative Sign Face Layout

Scale: 3/4" = 1'0"



Alternative Sign Face Layout

Scale: 3/4" = 1'0"



Alternative Sign Face Layout

Scale: 3/4" = 1'0"

Post Mount — ST - 282

DESCRIPTION: Regulatory - **Exterior.**

LOCATION: Terminal Curbside (Departure) and Ground Transportation (Arrival) areas.

MATERIALS: Fabricated stainless steel panel, 3M Diamond Grade Reflective Vinyl text and Symbol.

LETTERING:

- A Swiss721 BlkCn BT Bold
- B Swiss721 BT
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Diamond Grade VIP Reflective Film # 3990 or approved equal (White)
3. Band: 3M Diamond Grade VIP Reflective Film # 3992 or approved equal (Red)
4. Rule Line: N/A
5. Symbol: 3M Diamond Grade VIP Reflective(or approved equal)
   - Blue: Film# 3995
   - Red: Film #3992
   - White: Film # 3990

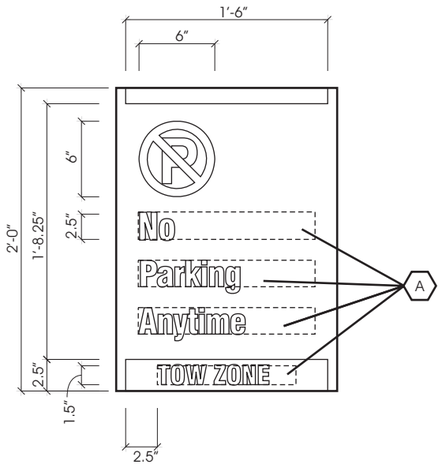
GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Post Mount.

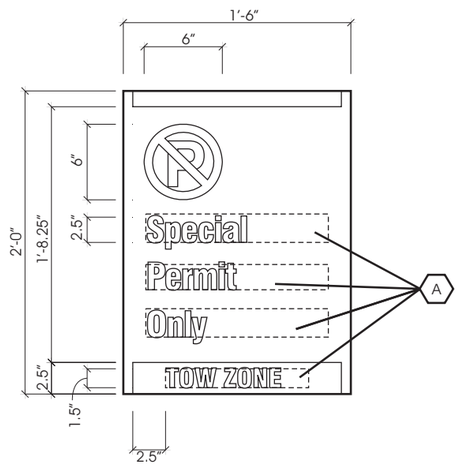
ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.



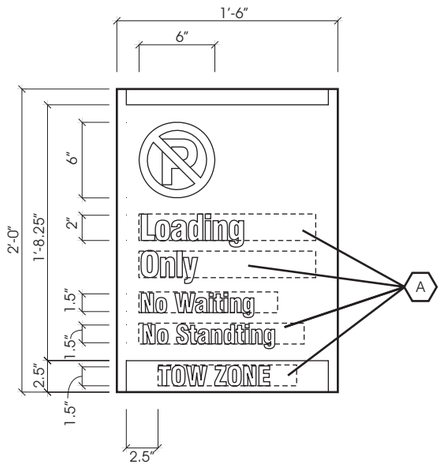
Alternative Sign Face Layout

Scale: 3/4" = 1'0"



Alternative Sign Face Layout

Scale: 3/4" = 1'0"

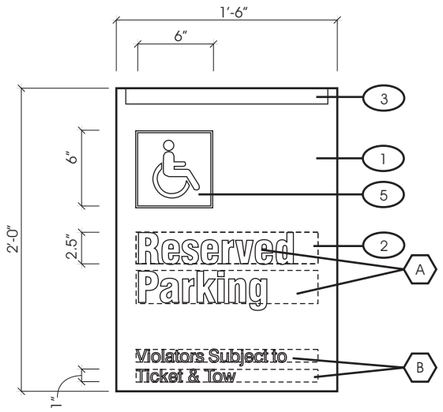


Alternative Sign Face Layout

Scale: 3/4" = 1'0"

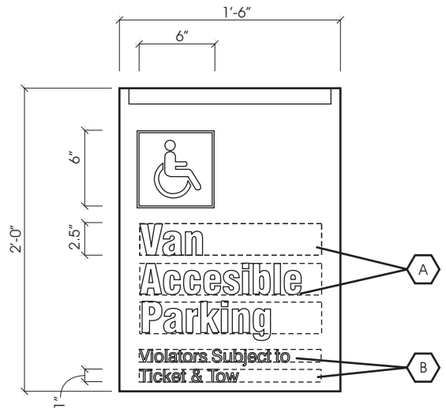
Informational - Primary /Secondary 3.5.3

#	Revision	Date



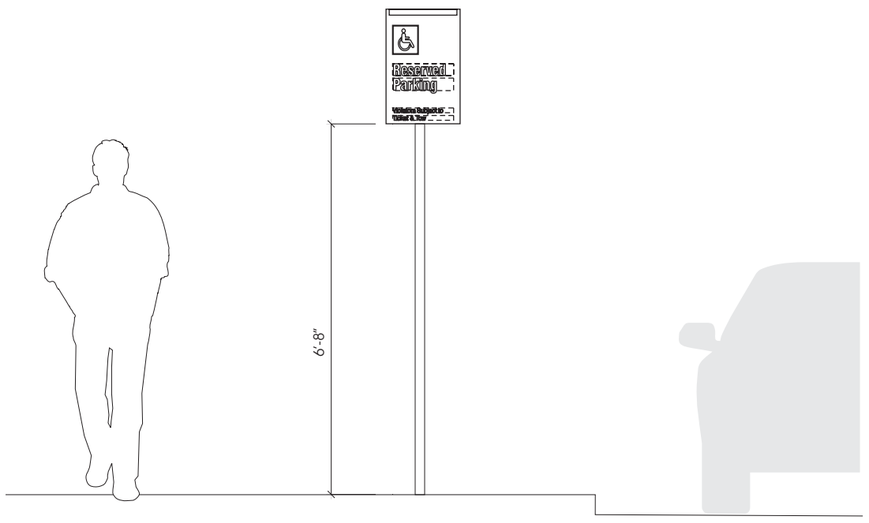
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



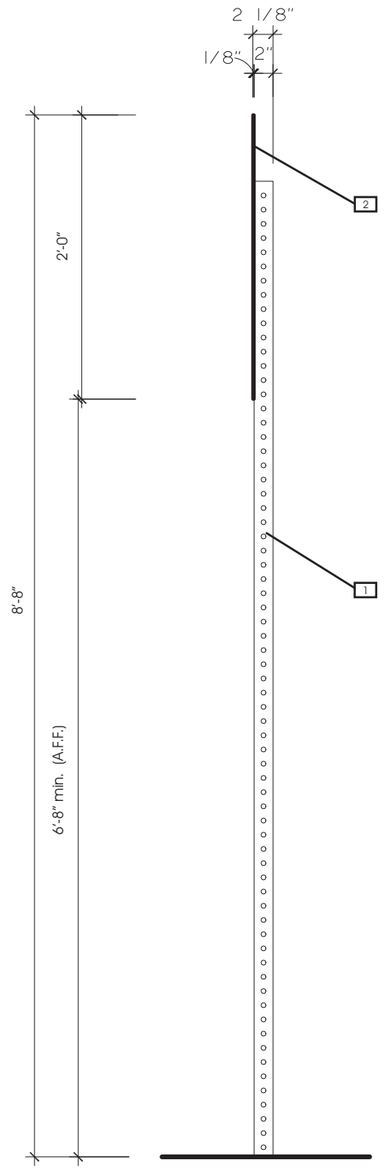
Alternative Sign Face Layout

Scale: 3/4" = 1'0"



ELEVATION (Exterior)

Scale: NTS



DETAIL - Side View (For Design Intent Only)

Scale: N.T.S.

Post Mount — ST - 283

DESCRIPTION: Regulatory - **Exterior.**

LOCATION: Terminal Curbside (Departure) and Ground Transportation (Arrival) areas.

MATERIALS: Fabricated stainless steel panel, 3M Diamond Grade Reflective Vinyl text and Symbol.

LETTERING:

- A Swiss721 BlkCn BT Bold
- B Swiss721 BT
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: 3M Diamond Grade VIP Reflective Film # 3990 or approved equal (White)
- 3 Band: 3M Diamond Grade VIP Reflective Film # 3992 or approved equal (Red)
- 4 Rule Line: N/A
- 5 Symbol: 3M Diamond Grade VIP Reflective(or approved equal)
  - Blue: Film# 3995
  - Red: Film #3992
  - White: Film # 3990

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Post Mount.

ILLUMINATION: Sign will be Nonlilluminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

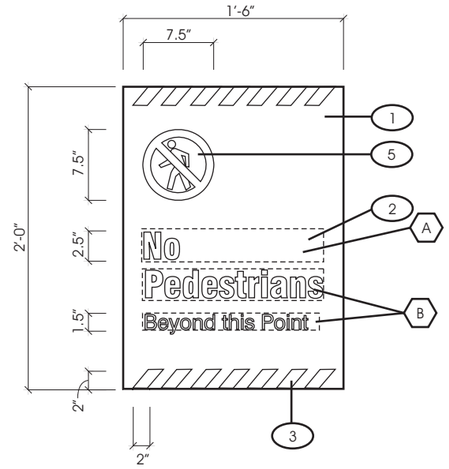
NOTES:

1 2" galvanized perforated square tube.
2 .125" aluminum sign face. Weld threaded stud on second surface. Bolt mount to pole.

Informational - Primary /Secondary 3.5.3

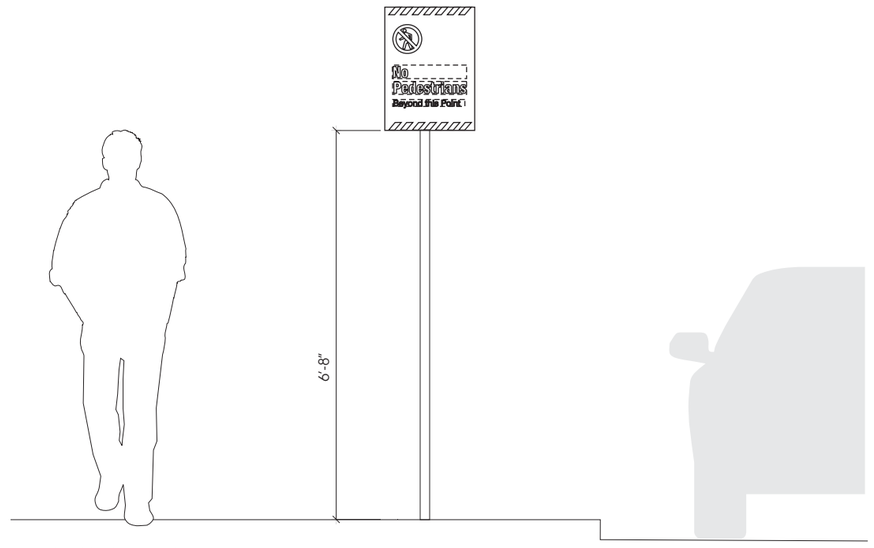
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



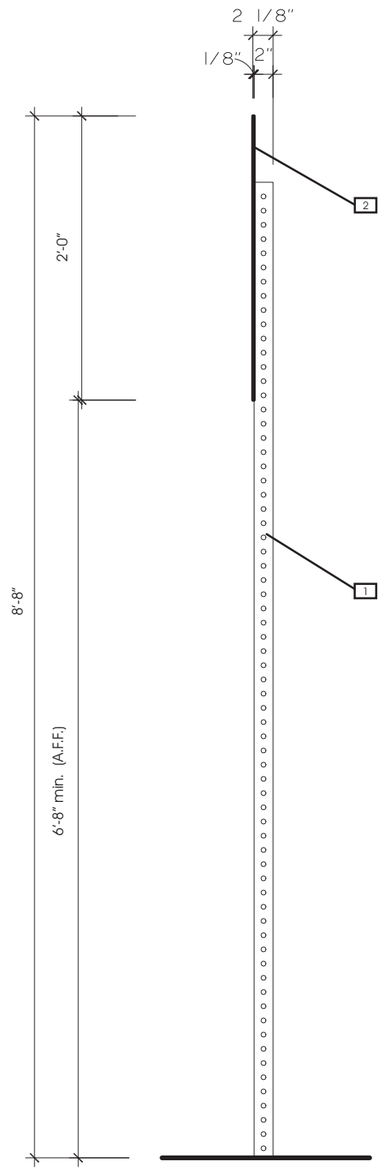
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: NTS



DETAIL - Side View (For Design Intent Only)

Scale: N.T.S.

Post Mount — ST - 284

DESCRIPTION: Pedestrian Caution - **Exterior.**

LOCATION: Terminal Curbside (Departure) and Ground Transportation (Arrival) areas.

MATERIALS: Fabricated stainless steel panel, 3M Diamond Grade Reflective Vinyl text and Symbol.

LETTERING:

- (A) Swiss721 BlkCn BT Bold
- (B) Swiss721 BT
- (C) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

- (1) Background: 3M Opaque Film #7725-12 or approved equal (Black)
- (2) Text: 3M Diamond Grade VIP Reflective Film # 3990 or approved equal (White)
- (3) Band: 3M Diamond Grade VIP Reflective Film # 3991 or approved equal (Yellow)
- (4) Rule Line: N/A
- (5) Symbol: 3M Diamond Grade VIP Reflective(or approved equal)
  - Blue: Film# 3995
  - Red: Film #3992
  - White: Film # 3990

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Post Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

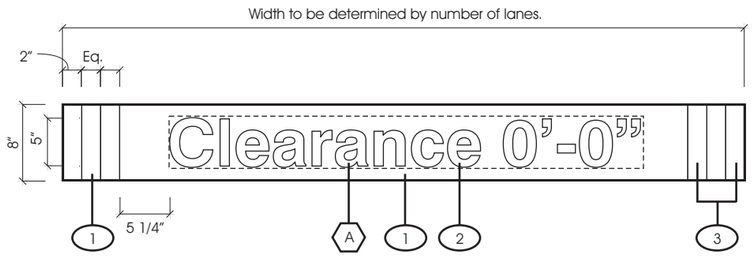
NOTES:

1. 2" galvanized perforated square tube.
2. .125" aluminum sign face. Weld threaded stud on second surface. Bolt mount to pole.

Informational - Primary /Secondary 3.5.3

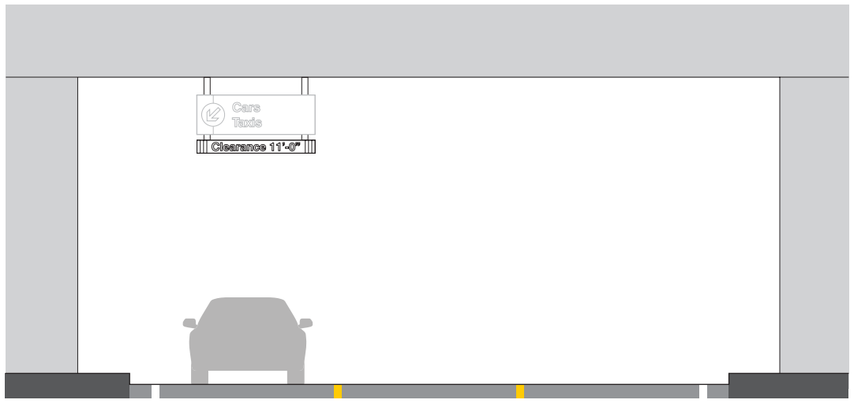
3.0 SIGN TYPES - CURBSIDE

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION (Exterior)

Scale: NTS

Ceiling Suspended — ST - 285

DESCRIPTION: Vehicular Clearance ID **- Exterior.**

LOCATION: Used at curbside as approaching from the roadways to delineate height clearance for vehicular traffic.

MATERIALS: Fabricated stainless steel panel.

LETTERING:

- A Swiss721 BT Bold
- B N/A
- C N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: 3M Solid Yellow Film #981-71 (or approved equal)
2. Text: 3M Opaque Film #7725-12 or approved equal (Black)
3. Band: 3M Opaque Film #7725-12 or approved equal (Black)
4. Symbol: N/A
5. Arrow: N/A
6. Header/Side Panel:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow Circle: N/A
8. Back panel: N/A
9. Text: N/A

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Ceiling Suspended

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

Informational - Primary /Secondary 3.5.3

3.0 SIGN TYPES - CURBSIDE

#	Revision	Date

It is important to summarize the previous signage related efforts, in an attempt to clarify the criteria for which this document is based and for a general understanding of the efforts that have lead up to the updating of the Boston Logan International Airport Signage Standards and Guidelines project.

Background

Boston Logan International Airport (BOS) is currently the 18th busiest airport in the USA and New England's primary airport, with over 26 million passengers per year using the Airport. By the year 2010, over 37 million passengers per year are expected to use the Airport's facilities.

Boston Logan International Airport is a conjunction of five connected individual terminals (Terminals A, B, C, D and E) and two major parking garages (Central Parking and Terminal B Parking). Each one of these facilities has its own architectural style, which may become an issue when trying to implement signage that is consistent throughout the Airport. Different signage systems have been implemented to custom fit the conditions of each facility resulting in a variety of sign types and sizes without uniform systematic characteristics.

As of February 2005, the issuance of this document, there are several "systems" in place that create a variation in signage conditions. The "older" system developed by Peter Muller-Munk in 1990 is still within place in several areas of the Airport (Terminal C, for example). In addition, Terminal B and its associated parking areas have an "older" signage system that was developed and implemented by the airlines.

As part of the Logan Modernization program for major landside improvements (terminals and roadways), Massport decided to establish Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft) submitted in May 2002 by Karen Lewis Design, Inc.(Graphic Standards) in an effort to create a seamless and cohesive signage system for the Airport.

These Graphic Standards have been and are continuously being implemented in sections of the Airport (Ex. Terminal E, B/C walkways). Future projects such as MPA Project No. L219-C3 Central Parking Garage Repairs and Expansion and Terminal A Redevelopment are being signed based on Karen Lewis Sign Program Guidelines and Graphic Standards.

Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft):
This program consists of a variety of sign type families for terminals, curbside, roadways and Airport service buildings. Karen Lewis Design Inc. Provided Massport with four volumes total that reference specifically to each one of these areas:

- Volume 1: Passenger Terminals Interior
- Volume 2: Passenger Terminals Curbside (Exterior)
- Volume 3: Airport Roadways (Terminal Roadways, Egress Roadways and Service Roads)
- Volume 4: Airport Service Buildings (Support Facilities)

#	Revision	Date

Background cont'd

Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft) cont'd:

Each set of sign families consisted of a variety of Directional, Informational, and Identification signs. However; a comprehensive family of identification sign types addressed for Terminals, Gates, and other important facilities/functions is not included in the program.

The existing Graphic Standards propose the use of terminal icons to identify the terminals. These icons carry the color and the letter designated for each terminal (Terminal A: Blue, Terminal B: Red, Terminal C: Green, Terminal D: Orange and Terminal E: Purple). These colors are used in directional signs in the roadways and the terminals.

Conceptual Report:

In an effort to make the passenger's wayfinding experience more pleasant throughout Boston Logan International Airport, the Massachusetts Port Authority (Massport) has decided to evaluate the feasibility of an alternate "color coded system" for the signage program and to review the existing Graphic Standards.

Massport has enlisted the services of Carter & Burgess, Inc (CB) to evaluate the possibility of an alternate "color coded system" and to provide examples of different "color coded systems" currently being implemented at other airports around the country.

The analysis of the existing "color-coded" systems within other airports, that Carter & Burgess, Inc reviewed, consisted of examples from the current Amsterdam's Schiphol International Airport. This specific system utilizes three sign background colors to differentiate between three primary airport function groupings: (yellow) flight services, (green) leaving the airport, and (black) auxiliary services.

Carter and Burgess, Inc summarized and evaluated the "color coded" system, reviewed the in-place signage conditions and current Graphic Standards at BOS and provided Massport with recommendations and alternatives to improve the Airport's signage system. The alternatives and brief description are as follows:

ALTERNATIVE 1 - MODIFY / PROCEED WITH CURRENT GRAPHIC STANDARDS:
Update and further standardize the current Graphic Standards along with additional solutions to enhance the overall program. There are areas on these standards that require enhancement, such as curbside color-coding, messaging on overhead roadways, addition of supplemental sign types, etc. In addition, there is a need to include dynamic signage, VMS, and a signage database.

ALTERNATIVE 2 DEVELOP NEW COLOR-CODED SIGN PROGRAM:
Re-evaluate the current sign program airport-wide and revise the system to be in compliance with the color-coding based on the "Schiphol-model".

ALTERNATIVE 3 HYBRID SIGNAGE SYSTEM:
Integrate the new color-coding principles with the current Graphic Standards. The alternative would include implementing color-coding to a lesser degree than used at Schiphol or NY/NJ, but still utilize the methodology of the system. Color-coding only the international symbols or using color-coding rule lines/ bands may achieve this.

#	Revision	Date

Background con't.

Conceptual Report con't:
The complete list of conclusions and recommendations as well as the results of the study can be found in the "Conceptual Report: Color-Coded Wayfinding Study" submitted to Boston Logan International Airport on April 2003.

Wayfinding Analysis and Plan:
Based on the recommendations and alternatives proposed by CB in the "Conceptual Report: Color-Coded Wayfinding Study", Massport commissioned Carter and Burgess to develop a Wayfinding Analysis and Plan in July 2003.

The purpose of the Wayfinding Analysis and Plan was to identify and determine key wayfinding decision points for passengers throughout Boston Logan International Airport for proper wayfinding signing. This analysis included terminals, curbside, garage, frontage roadways, etc. , and develop a plan of recommendations showing conceptually how to improve these problematic areas. CB performed a series of site surveys at BOS in order to identify and determine major circulation patterns throughout the airport as well as major decision points.

The data collected during those visits through photos, videos, surveys, meetings and drawings was used to determine key recommendations that would improve the wayfinding and signage system at the Airport.

In general, the study found that there are signage issues, short-term and long-term, that need to be addressed at BOS. CB provided Massport with general recommendations that would improve the wayfinding and signage system at BOS in both short-term and long-term bases.

SHORT-TERM RECOMMENDATIONS:
As part of the short-term solutions, Carter & Burgess, Inc determined typical problematic areas for proper wayfinding and signage throughout the Airport and recommend interim solutions for each one of these situations.

CB provided Massport with temporary solutions for terminals, curbside, parking and roadways that can be found in the packages listed below:

- Short-Term Recommendations Terminals: Submitted February 16th, 2004
- Short-Term Recommendations Curbside: Submitted March 16th, 2004
- Short-Term Recommendations Parking: Submitted March 16th, 2004
- Short-Term Recommendations Roadways: Submitted March 23rd, 2004

LONG-TERM RECOMMENDATIONS:
As part of the long-term solutions, CB studied the current signage systems being used at BOS and revised the current Graphic Standards that are being implemented in order to provide the Airport with long-term recommendations. These recommendations included changes in the nomenclature, terminology, message hierarchy, international symbols, color-coded system, sign types and other important issues that would affect the signage system throughout the Airport.

The long-term recommendations were presented to the BOS Signage Committee in different occasions through four Signage Committee Work-Sessions:

#	Revision	Date

Background con't.

Wayfinding Analysis and Plan cont'd:

1. Signage Committee Work-Session No.1 held on 10/29/03
2. Signage Committee Work-Session No.2 held on 12/19/03
3. Signage Committee Work-Session No.3 held on 04/28/04

The decisions made by the Committee during the Work-Sessions determined the direction of the Signage Standards and Guidelines. Detailed recommendations regarding Terminology, Message Hierarchy, International Symbols, Typography, etc,. can be found in the Section 2.0 Graphic Standards of the Signage Standards and Guidelines for each area.

Signage Standards and Guidelines:
Upon the completion of the Wayfinding Analysis and Plan CB was commissioned for a third task at BOS. This task consisted of revising and modifing the Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft). This document is the second of five volumes of the Signage Standards and Guidelines developed by CB.

The objective of the Signage Standards and Guidelines is to provide a set of design standards, requirements and design criteria to be used for all interior and exterior signing applications at BOS. The document will be the primary reference for those designing and implementing the Airport's capital improvement program. Criteria relating to terminology/symbology, graphic layout, letter style, arrow size, size relationships, color relationships, sign types, mounting conditions, etc. is set forth in these standards and guidelines.

Signs Regulated by the Documents:

- All exterior and interior directional, identification, and informational signs for public throughout the airport property:
  - Access Roadway
  - Airport Roadway
  - Curbside (Upper, Lower)
  - Ground Transportation
  - Terminal(s)
  - Parking Garage and Sub-ordinate Parking Facilities
  - Airport Services Facilities

There are five "volumes" in the total set of Graphics Standards and Guidelines for BOS. Each volume is a separate reference to a different area(s) or new development as follows:

- Volume 1:Terminals
- Volume 2: Curbside and Ground Transportation
- Volume 3: Parking
- Volume 4: Roadways
- Volume 5:Airport Services Facilities

#	Revision	Date

Background, con't

Based on the determination of required messages in the various areas of the airport property and the relationship of message function to message hierarchy, a numbering system was developed to classify sign types. The following list outlines all of the sign type series used at BOS.

Series 100 - Terminal
- Directional 101 - 150
- Identification 151 - 180
- Informational 181 - 199

Series 200 - Curbside/Ground Transportation
- Directional 201 - 250
- Identification 251 -280
- Informational 281 - 299

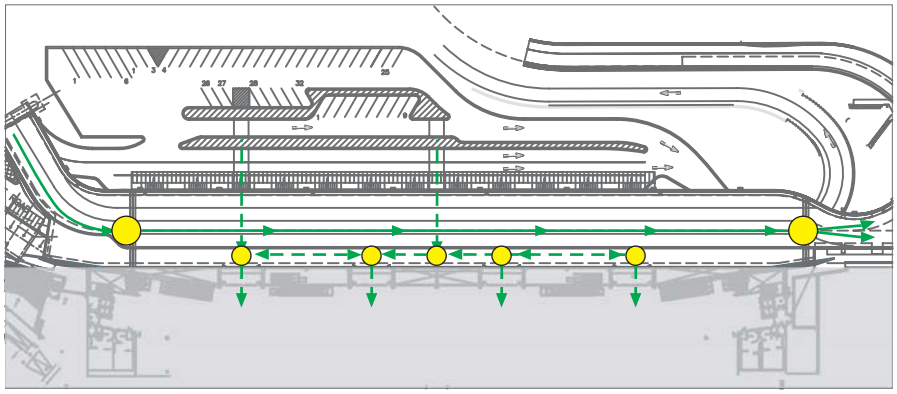
Series 300 - Parking
- Directional 301 - 350
- Identification 351 -380
- Informational 381 - 399

Series 400 - Roadways
- Directional 401 - 450
- Identification 451 - 480
- Informational 481 - 499

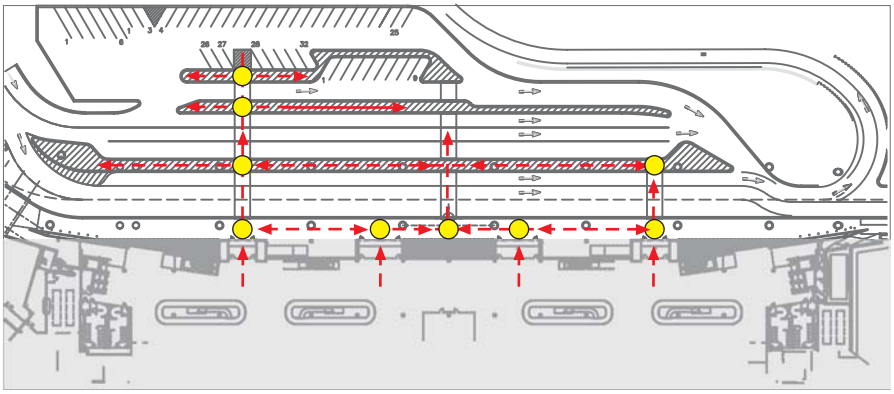
Series 500 - Airport Services Buildings
- Directional 501 - 550
- Identification 551 - 580
- Informational 581 - 599

#	Revision	Date

Circulation Diagrams cont'd.

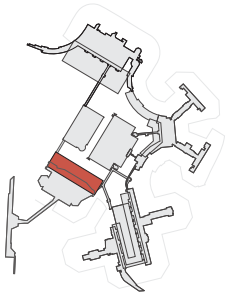


Level 2
Departures



Level 1
Arrivals

Airport Key Plan



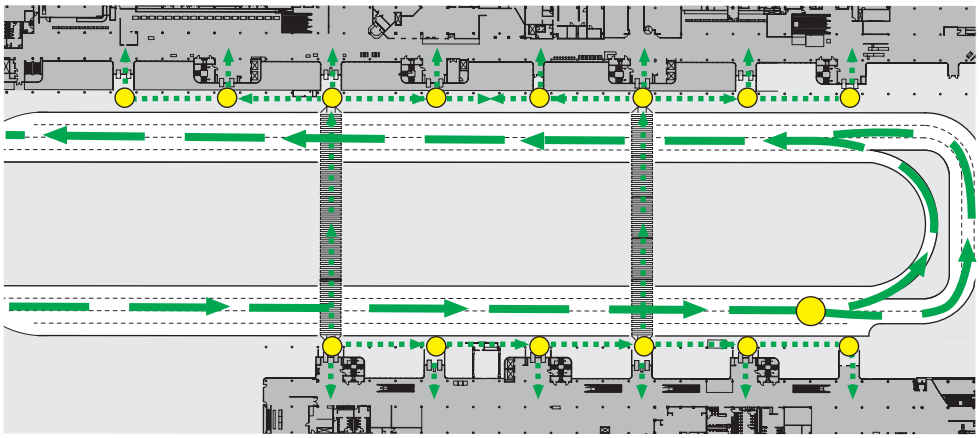
Traffic Flow Key		
Pedestrian Arrival Flow	Pedestrian Departure flow	Pedestrian Decision Point
Vehicular Arrival Flow	Vehicular Departure flow	Vehicular Decision Point

Curbside Terminal A - Circulation Diagram

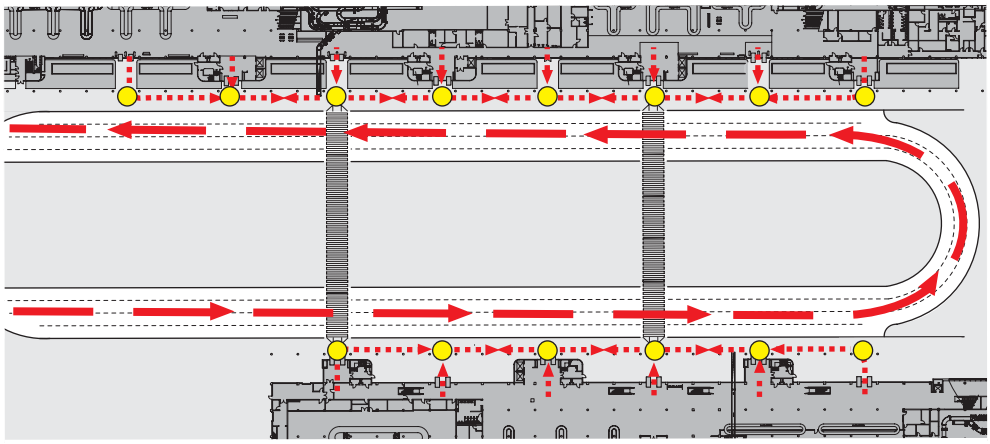
Figure A-01

#	Revision	Date

Circulation Diagrams cont'd.

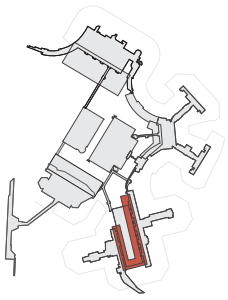


Level 2
Departures



Level 1
Arrivals

Airport Key Plan



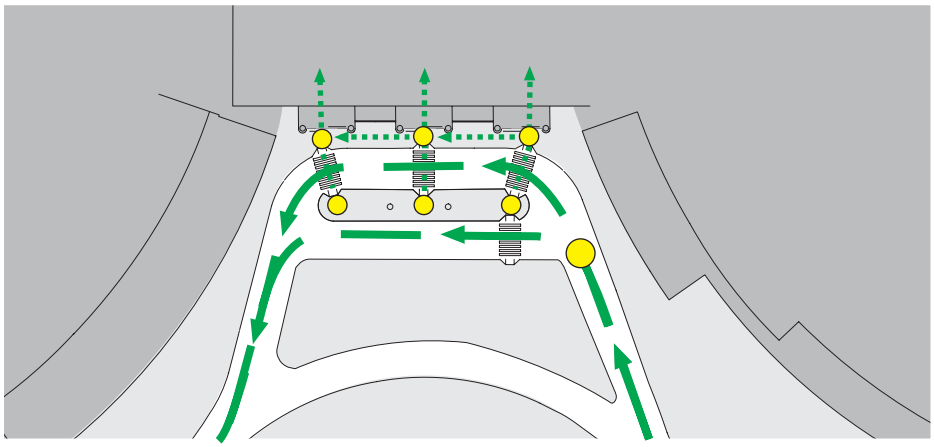
Traffic Flow Key		
Pedestrian Arrival Flow	Pedestrian Departure flow	Pedestrian Decision Point
Vehicular Arrival Flow	Vehicular Departure flow	Vehicular Decision Point

Curbside Terminal B - Circulation Diagram

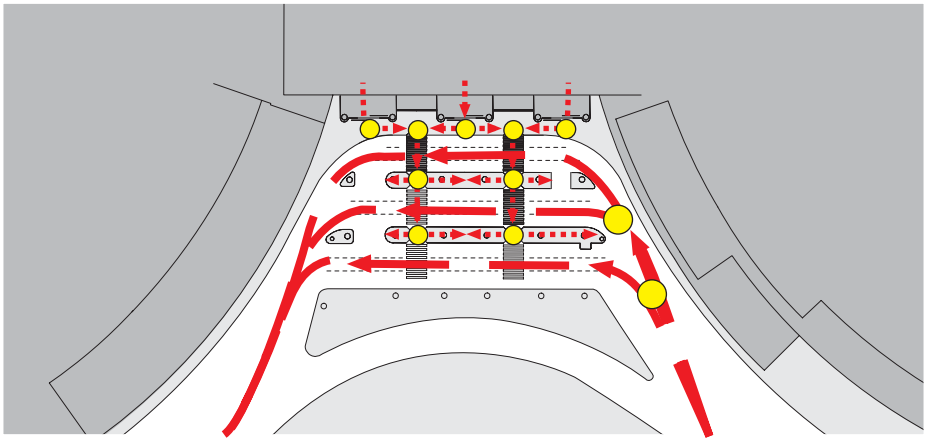
Figure A-02

#	Revision	Date

Circulation Diagrams cont'd.

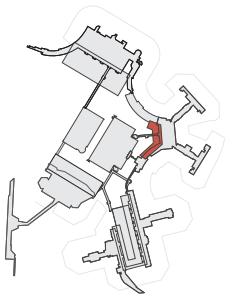


Level 2
Departures



Level 1
Arrivals

Airport Key Plan



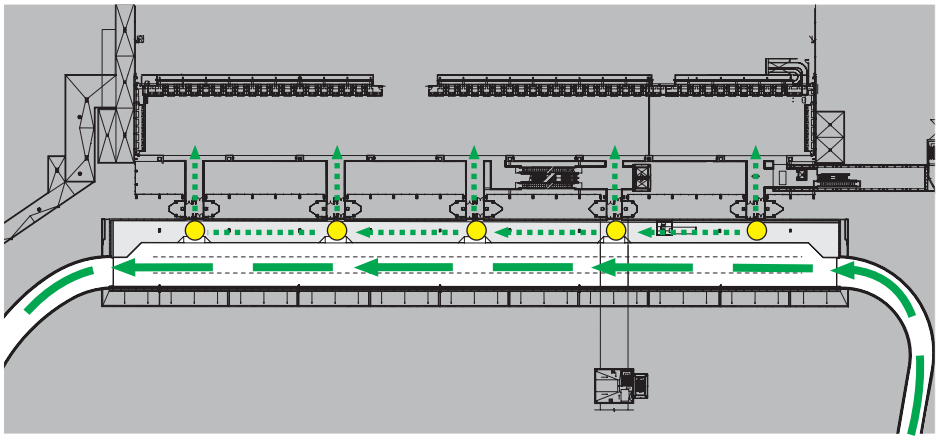
Traffic Flow Key		
Pedestrian Arrival Flow	Pedestrian Departure flow	Pedestrian Decision Point
Vehicular Arrival Flow	Vehicular Departure flow	Vehicular Decision Point

Curbside Terminal C - Circulation Diagram

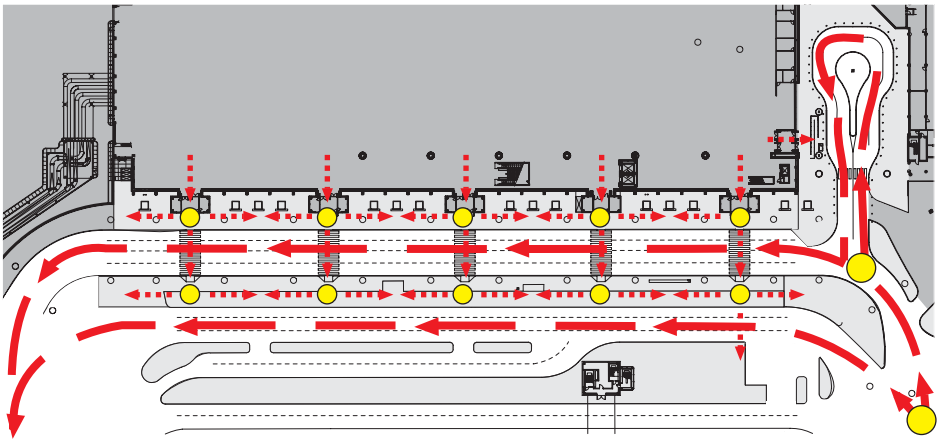
Figure A-03

#	Revision	Date

Circulation Diagrams cont'd.

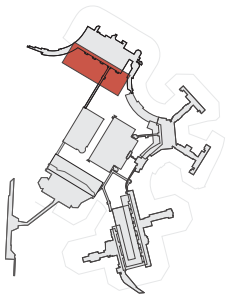


Level 3
Departures



Level 1
Arrivals

Airport Key Plan



Traffic Flow Key		
Pedestrian Arrival Flow	Pedestrian Departure flow	Pedestrian Decision Point
Vehicular Arrival Flow	Vehicular Departure flow	Vehicular Decision Point

Curbside Terminal D - Circulation Diagram

Figure A-04

#	Revision	Date

1.0 Overview
1.1 Volume 3 : Parking - Overview

2.0 Graphic Standards
2.1 Typography
2.2 Terminology/Symbology
2.3 Message Hierarchy
2.4 Arrow Standards
2.5 Color Standards

3.0 Sign Types - Parking (300 Series)
3.1 Identification System
3.2 Grid Layouts
3.3 Mounting Requirements
3.4 Sign Type Index
3.5 Sign Type - Layouts
3.5.1 Directional Signs
3.5.2 Identification Signs
3.5.3 Informational Signs

Appendix

A.1 Signage Program Overview
A.2 Circulation Diagrams

#	Revision	Date

Purpose and Scope 1.1.1

The purpose of this volume of the Signage Standards and Guidelines is to outline general criteria for the design and/or fabrication of signage within parking areas of Boston-Logan International Airport (BOS). This is intended to meet the particular needs of the traveling public while maintaining overall design cohesion with the signage system airport-wide.

Adherence to the standards of this document and official Massachusetts Port Authority (Massport) policies and procedures will ensure consistency throughout the signage system at BOS.

Signs Regulated by this document include:

- All exterior and interior directional, identification, and informational signs for public visitors throughout the parking area within the airport property, including:
  - Parking Garages
    - Central Parking
    - Terminal B Parking
    - High Vehicle Parking
    - Economy Lots
    - Surface Lots

Signs NOT Regulated by this document include:

- Terminal(s) (see Volume 1)
- Curbside and Ground Transportation (see Volume 2)
- Roadways (see Volume 4)
- Cargo and support facilities
- Vehicular pavement markings
- Rental car facilities
- Non-public areas

#	Revision	Date

Purpose and Scope cont'd. 1.1.1

This volume is organized in four main sections: Overview, Graphic Standards, Sign Types, and Appendix.

- **Overview** - includes an overall explanation of the signage program as well as the purpose and scope of the volume.

- **Graphic Standards** - includes general specifications applicable to all sign types, which include:
  - TYPOGRAPHY - application and standardization for all typography used on directional, informational, and identification signage.
  - TERMINOLOGY - includes all terminology that shall be used throughout the parking areas.
  - SYMBOLOGY - includes all symbology that shall be used throughout the parking areas, its application, restrictions and its corresponding terms.
  - MESSAGE HIERARCHY - includes message hierarchy for each category organized by sign types. Those categories are: Primary Messages, Secondary Messages and Tertiary Messages.
  - ARROW STANDARDS - includes arrow sizes, application on directional signage, orientations and placement.
  - COLOR STANDARDS - listing of all colors, paint equivalents, and transparency/ opaque vinyl specifications that shall be allowed through the parking areas.

- **Sign Types** - specific sign layout information and application guidelines:
  - IDENTIFICATION SYSTEM - includes all the sign type series numbering and specific break down for the sign type numbering within each series.
  - GRID LAYOUTS - includes the grid sizes used to determine the sign types sizes.
  - MOUNTING REQUIREMENTS - descriptions of all the mounting styles that shall be used in the parking areas are given. Specific application or special circumstances are delineated.
  - SIGN TYPE INDEX - sign descriptions and specifications referencing sign layouts and details.
  - SIGN TYPE LAYOUTS - includes sign face layouts, elevations and mounting descriptions.

- **Appendix** - may include forms, graphics, and/ or supplemental information relevant to this specific volume. It also includes Circulation Diagrams for the parking facilities.

#	Revision	Date

Governing Codes and Standards 1.1.2

Governing codes, city ordinances and standards affecting the Boston Logan International Airport (BOS) signing and graphics system are outlined below. The following list of requirements have been compiled from the various governing codes affecting Boston-Logan International Airport. This list is not to be assumed as a complete list of requirements. If there is a conflict between a requirement listed below and another authoritative code or standard, the more stringent one shall be applied. This section is for reference only, and it is the designer's responsibility to meet all current applicable codes or regulations.

General Regulation Requirements

- In all rooms or areas where smoking is prohibited, plainly visible "NO SMOKING" signs (using either the verbiage or symbol, or both) shall be posted.
- Elements and space of accessible facilities which shall be identified by the International Symbol of Accessibility are:
    - Parking spaces designated as reserved for individuals with disabilities
    - Accessible passenger loading zones
    - Accessible entrances when not all are accessible (inaccessible entrances shall have directional signs indicating the route to the nearest accessible entrance)
    - Accessible toilets, when not all toilets are accessible
- An eggshell finish (11 to 19 degree gloss on 60 degree gloss meter) on sign faces is recommended.
- Illumination levels on sign surfaces shall be in the 100 to 300 lux range (10 to 30 foot candles) on interior signs, and shall be uniform over the sign surface. Signs shall be located such that the illumination level on the surface of the sign is not significantly exceeded by the ambient light or visible bright lighting source behind or in front of the sign.
- Characters and numbers on signs shall be sized according to the viewing distance from which they are to be read. The minimum height is measured using an upper case X. Lower case characters are permitted unless noted otherwise.
- For Braille signs the letters and numbers shall be raised 1/32" minimum, upper case, san-serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8", but no higher that 2". Pictograms shall be accompanied by the equivalent verbal description placed below the pictogram. The border dimension of the pictogram shall be 6"minimum in height.
- Each door to an exit stairway shall have tactile signing that states EXIT and complies with ANSI.

#	Revision	Date

Governing Codes and Standards cont'd. 1.1.2

AAAE	American Association of Airport Executives
AASHTO	American Association of State Highway and Transportation Officials
ACC	Airport Consultants Council
AIGA	American Institute of Graphic Arts
ANSI	American Nationals Standards Institute
ASTM	American Society for Testing and Materials
ATA	Air Transport Association of America
AWI	Architectural Woodwork Institute
CAA	Civil Aeronautics Administration
CAB	Civil Aeronautics Board
CABO	Council of American Building Officials
CSI	Constructions Specifications Institute
FAA	Federal Aviation Administration
FHA	Federal Highway Administration
IATA	International Air Transport Association
NEMA	National Electric Manufacturers Association
NFPA	National Fire Protection Association
MHD	Massachusetts Highway Department

Governing Bodies and Authoritative Organizations

Figure 1.1.1

ADA	American with Disabilities Act
ANSI	American National Standards Institute, Inc.
LSC	Life Safety Code (written by NFPA)
MBC	Massachusetts Building Code
MUTCD	Manual of Uniform Traffic Control Devices
NEC	National Electrical Code (written by NFPA)
SPC	Standard Plumbing Code (written by NFPA)
SBCCI	Standard Building Code
UBC	Uniform Building Code

Codes and Regulations

Figure 1.1.2

#	Revision	Date

Design Criteria 1.1.3

The design criteria for Boston Logan International Airport (BOS) is organized into sections which outline the procedures and requirements for development of a successful signage system to guide visitors through the airport facilities. These principles for design are intended to inform and instruct in properly establishing the signage standards and guidelines for parkings at BOS. This part of the document should be used as a basis for and supplement to the graphic standards to create a uniform and cohesive signing and graphics system for Boston Logan International Airport.

In development of the signage design for BOS, the following list of design requirements/ criteria should be applied to all the sign types:

- Methodology
- Nomenclature
- Wayfinding Factors Process
- Consistent Sign Placement
- Consistent Legibility

Methodology:
To comprehensively program the airport wayfinding, an in-depth analysis of the facilities and circulation has been conducted, and Wayfinding methodology has also been established which CB has included in these guidelines. All major airport facilities have been reviewed in a holistic approach to ensure wayfinding consistency throughout. The methodology begins with this review:

- All airport facilities plans (plans and elevations)
- Space functions
- Circulation paths
- Peak load circulation
- Established Nomenclature and Terminology
- Established Message Hierarchy
- Vertical and horizontal circulation
- Primary destinations
- Physical complications
- Connecting passengers verses Origin & Destingation

NOMENCLATURE AND TERMINOLOGY:
The first issue that has been taken into account is the Nomenclature and Terminology. Terminology identifying airport functions and space has been standardized and established*(See section 2.2 in Graphic Standards)*.

MESSAGE HIERARCHY:
Hierarchy of messages exist for primary, secondary, and tertiary messaging. Ranking was based on routing or destination priorities and site, or space specific direction(s). The message hierarchy established in this document shall be used to develop message schedules for future signage *(See section 2.3 in Graphic Standards)*.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Methodology cont'd:

GRAPHIC STANDARDS:
The Graphic Standards section of this document shall be used as established in this document for the design of future signage *(See section 2.0 Graphic Standards)*. Included in the graphic standards would be documentation of:

- Font type, size relationships, kerning, spacing, etc.
- Symbols
- Arrows, types and relationships
- Language relationships and ranking
- Clear space
- Graphic element spacing
- Color, color coding
- Branded colors if applicable
- General materials consideration

SIGN TYPES:
The sign type family is the catalog of all directional, identification and informational signage applications. It functions as a tool for programming signs and allows for a much more effective process *(See section 3.0 Sign Types)*. This section includes primary and secondary sign types for:

- DIRECTIONAL SIGNS - Signage designed to facilitate circulation to and/ or from a specific destination within the airport complex.
- IDENTIFICATION SIGNS - Signage designed for identification of specific areas or spaces within the airport complex.

INFORMATIONAL SIGNS - Signs or displays designed to convey airport information and services. Directories of floor plans, levels, airport services, airlines, gates information, etc.

Future signage shall be designed based on the sign types included in the Section 3.0 of this document. Information regarding acceptable sign sizes and mounting requirements is also included.

#	Revision	Date

Design Criteria cont'd. 1.1.3

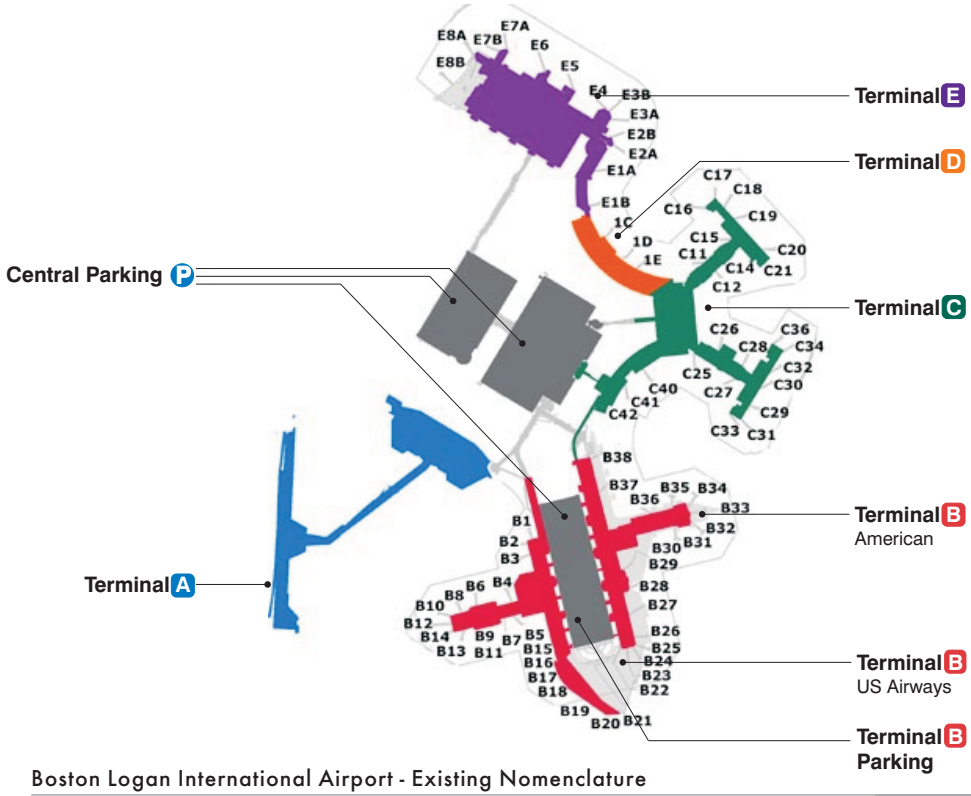
Nomenclature

NOMENCLATURE AND TERMINOLOGY

A. Existing Nomenclature:

- Parking Designation: Boston Logan International Airport currently has two major parking facilities (Terminal B Parking and Central Parking) and two economy lots. Terminal B serves as the closest parking for the two piers of Terminal B and Central Parking for the other Terminals.

Note: Terminal Nomenclature is addressed on the Signage Standards and Guidelines Volume 1: Terminals.



Boston Logan International Airport - Existing Nomenclature

Figure 1.1.3

#	Revision	Date

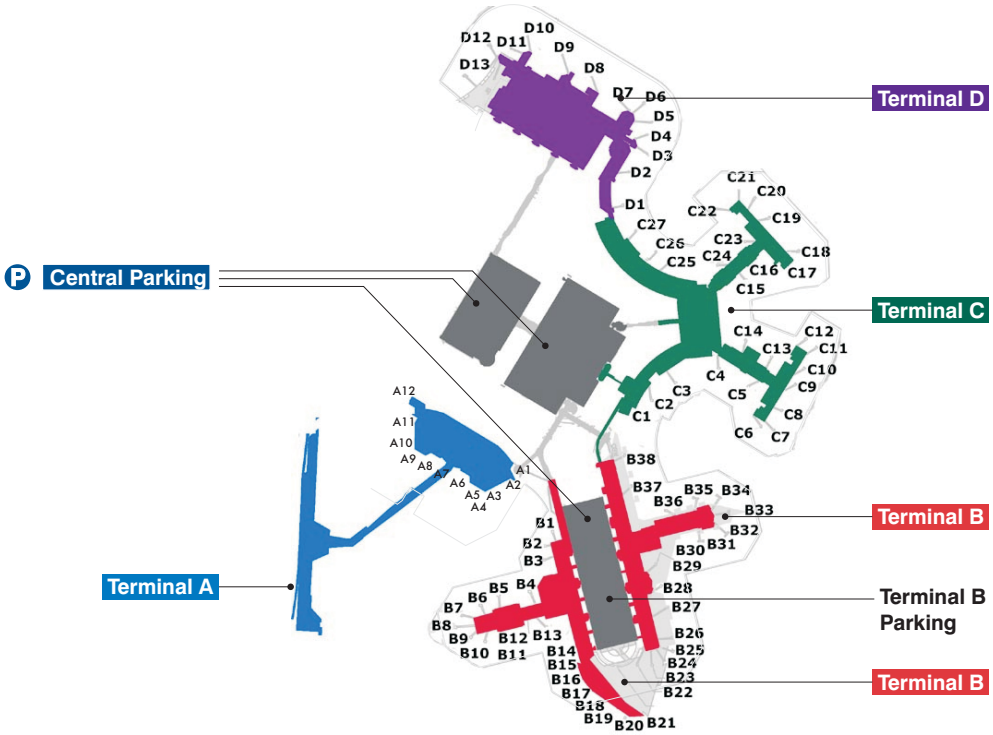
Design Criteria con't. 1.1.3

Nomenclature con't.

NOMENCLATURE AND TERMINOLOGY

B. Future Nomenclature:

- Parking Designation: Boston Logan International Airport will have two major parking facilities (1. Terminal B Parking 2. Central Parking) and two economy lots (Economy Lot 1 and Economy Lot 2).



Boston Logan International Airport - Future Nomenclature

Figure 1.1.4

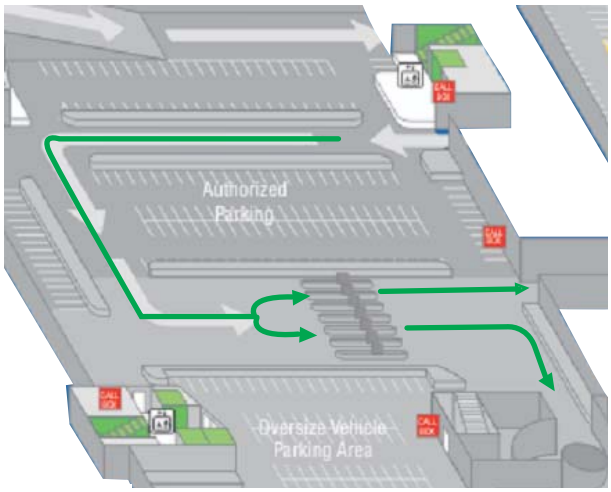
#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors:
The ability to orient and navigate through the various airport environments is fundamentally important. Wayfinding brings into play the analysis of spatial relationships and circulation studies.

CIRCULATION ANALYSIS:
Incoming and Outgoing (or Enplaning and Deplaning) circulation for major user groups shall be charted by the designer of the sign system. Points of origin and destination will be referenced as the basis for identifying critical decision points and information requirements.

Primary vehicle circulation routes are depicted as solid lined arrows and the dotted lined arrows depict pedestrian circulation routes.



Note: Refer to Appendix for complete information on circulation diagrams for all Parking Facilities.

Circulation Flow - Example taken from Central Parking

Figure 1.1.5

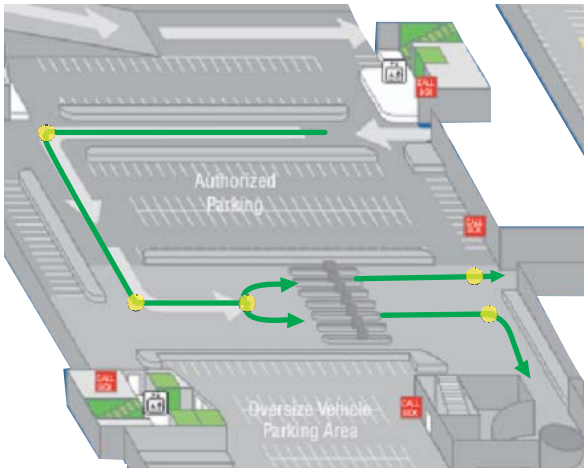
#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

IDENTIFICATION OF DECISION POINTS:
Decision points along user circulation routes shall be located at required direction changes and points where the user encounters alternative choices.

Examples of decision point locations within the existing complex shall be as yellow circles at primary and secondary intersection/directional changing areas as shown below. These areas are the most optimal location for placing directional signs that inform the viewer of the existing alternative pathways.



Circulation Flow - Example taken from Central Parking

Figure 1.1.6

Note: Refer to Appendix for complete information on circulation diagrams for all Parking facilities.

DETERMINING REQUIRED INFORMATION AT DECISION POINTS:
The type of information required at or preceding each decision point shall be determined. In addition, the location of messages identifying destination points should be determined.

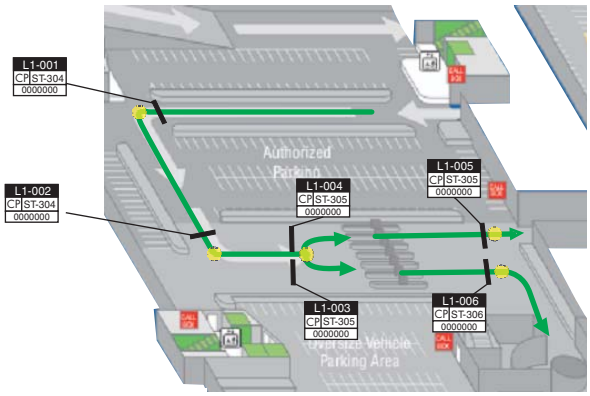
#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

IDENTIFICATION OF SIGN LOCATIONS

Plans, cross sections and elevations of specific terminal spaces shall be analyzed by the designer of the sign system. A final sign location plan should then be determined.

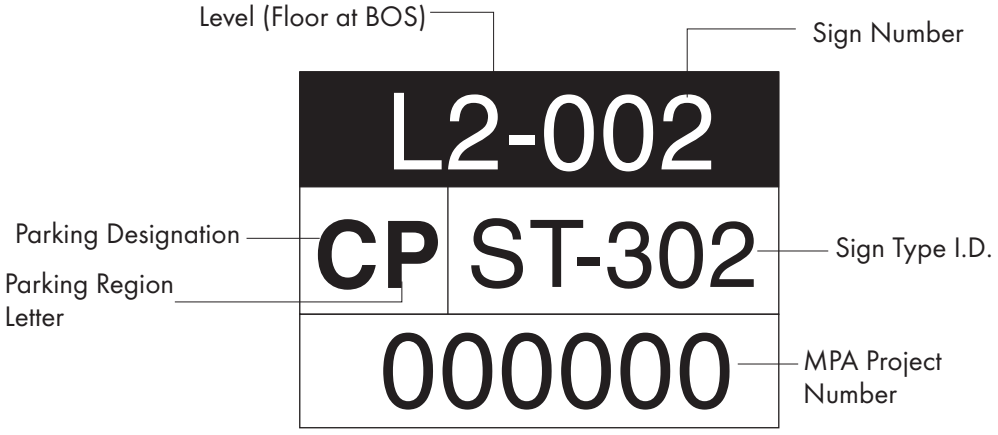


Circulation Flow - Example taken from Central Parking

Figure 1.1.7

SIGN LOCATION INDICATORS

The following system should be used to identify each sign type and its location on the plans. Each sign shall be given a terminal area, a floor level of the airport facility, an identification of its type and a sequential number for the plan. This will assure that a consistent sign location system is used from designer to designer.



Sign Location Indicator Example

Figure 1.1.8

#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

DELIVERABLES:
Upon completion of the steps mentioned before, the designer shall provide the Airport with detailed drawings and information for the following:

- Circulation Analysis
- Identification of Primary and Secondary decisions points
- Detailed locations of each one of the signs to be constructed and implemented
- Signage database using the Sign location indicator system *(See figure 1.1.8)*

These shall be included for each facility within the Airport where signage is being developed for. (Terminals, Curbside, Parking and Roadways).

The documents listed above are a compliment to the deliverables necessary to construct the signs (i.e, Sign layouts, message schedules, mounting specifications, construction specifications, etc...) which shall also be provided by the designer.

A detailed list of submitals shall be agreed on between the Authority and the designer prior to commencement of the project.

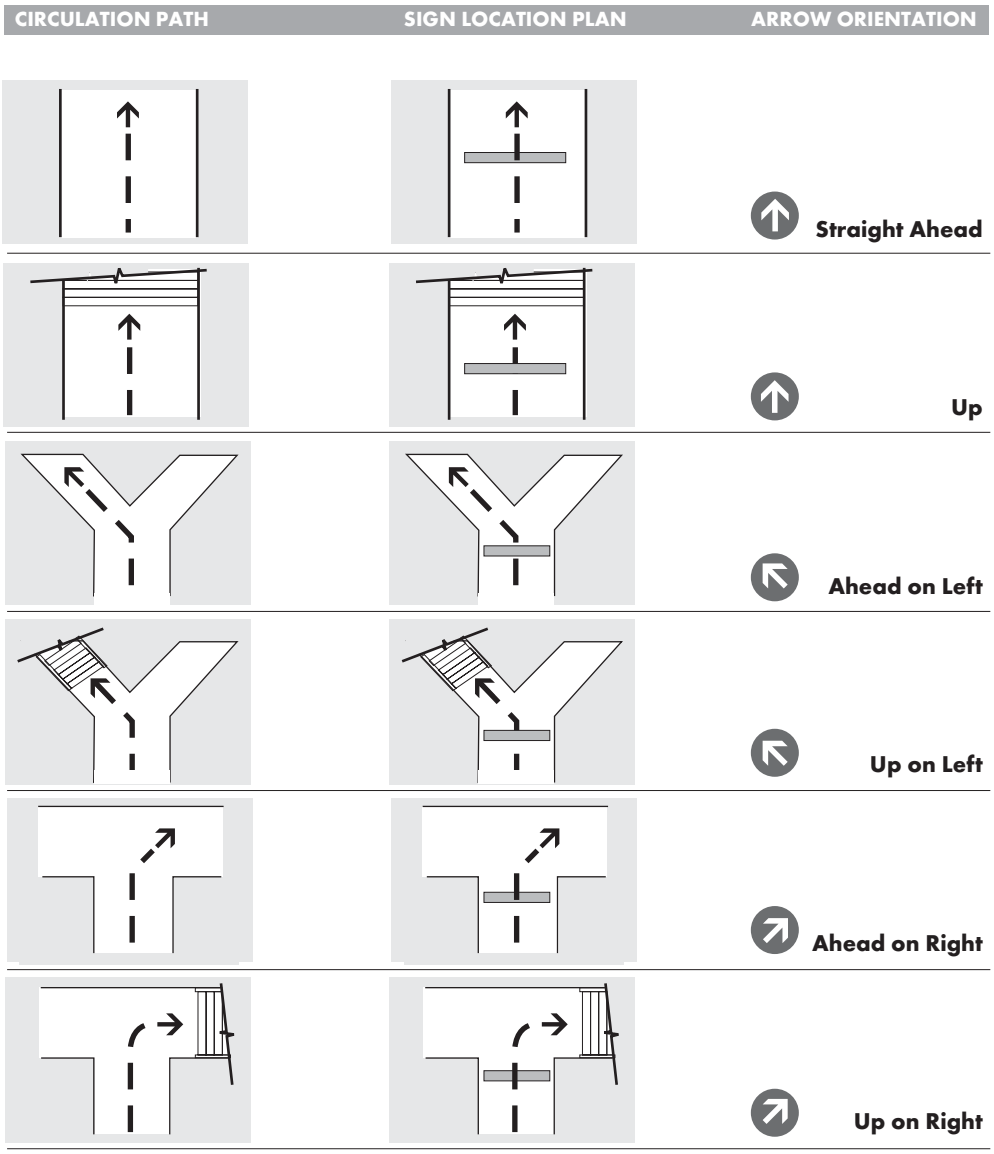
NOTE: This document is intended to be a guideline only. Each designer is expected to complete their due diligence in the design of all signage support structures and related items.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Pedestrian Sign Placement:

Viewer circulation patterns and natural lines of vision are the basis for determining the location of all signs. Signs shall be located to precede decision points to ensure sufficient time for passengers to react to each sign message.



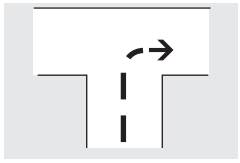
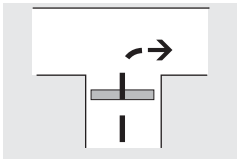
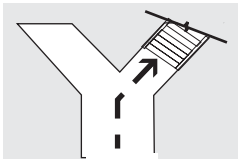
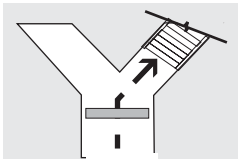
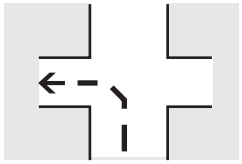
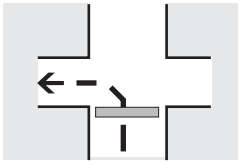
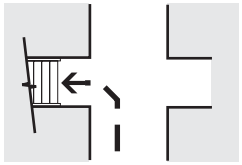
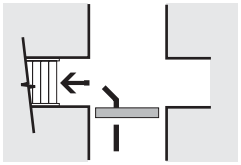
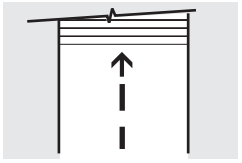
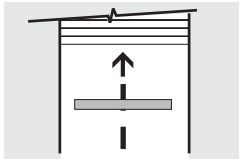
Sign Placement

Figure 1.1.9

#	Revision	Date

Design Criteria cont'd. 1.1.3

Pedestrian Sign Placement cont'd:

CIRCULATION PATH	SIGN LOCATION PLAN	ARROW ORIENTATION
		Right
		Down on Right
		Left
		Down on Left
		Down

Sign Placement (con't)

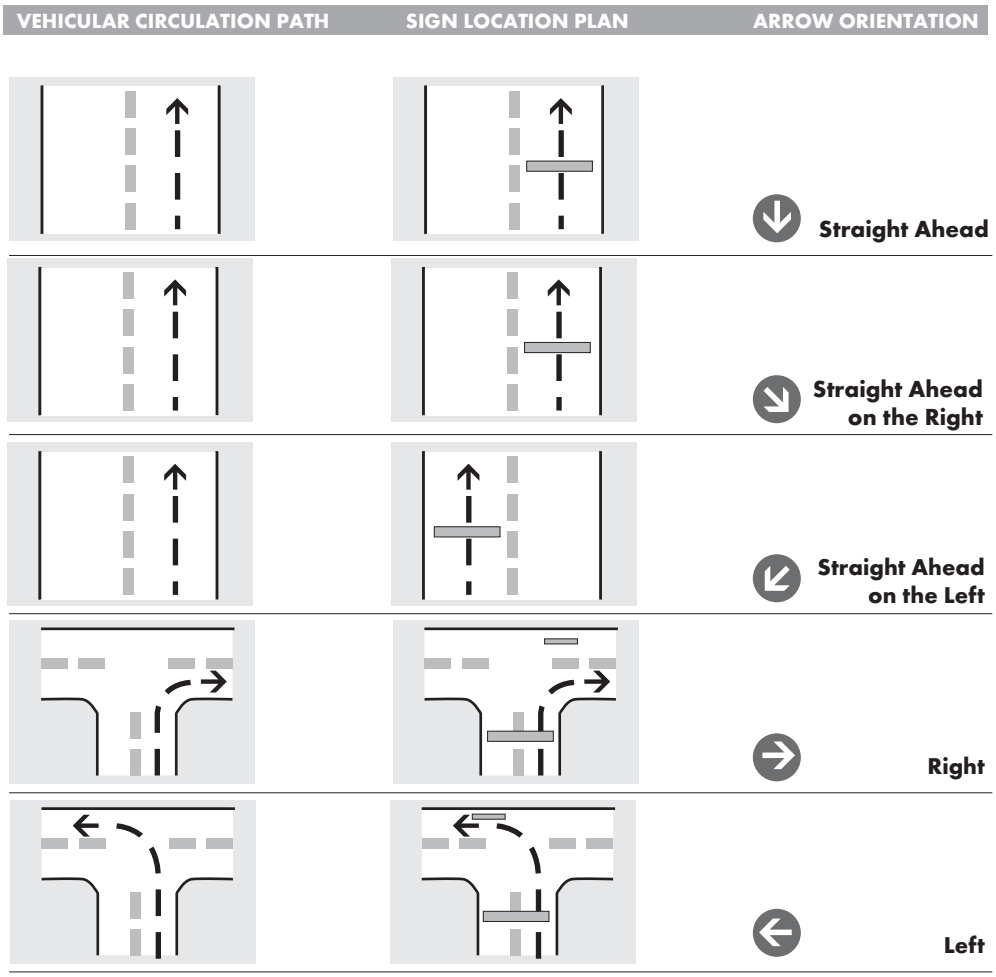
Figure 1.1.10

#	Revision	Date

Design Criteria cont'd. 1.1.3

Vehicular Sign Placement:

Viewer circulation patterns and natural lines of vision are the basis for determining the location of all signs. Signs shall be located to precede decision points to ensure sufficient time for vehicles to react to each sign message.



Sign Placement (con't)

Figure 1.1.11

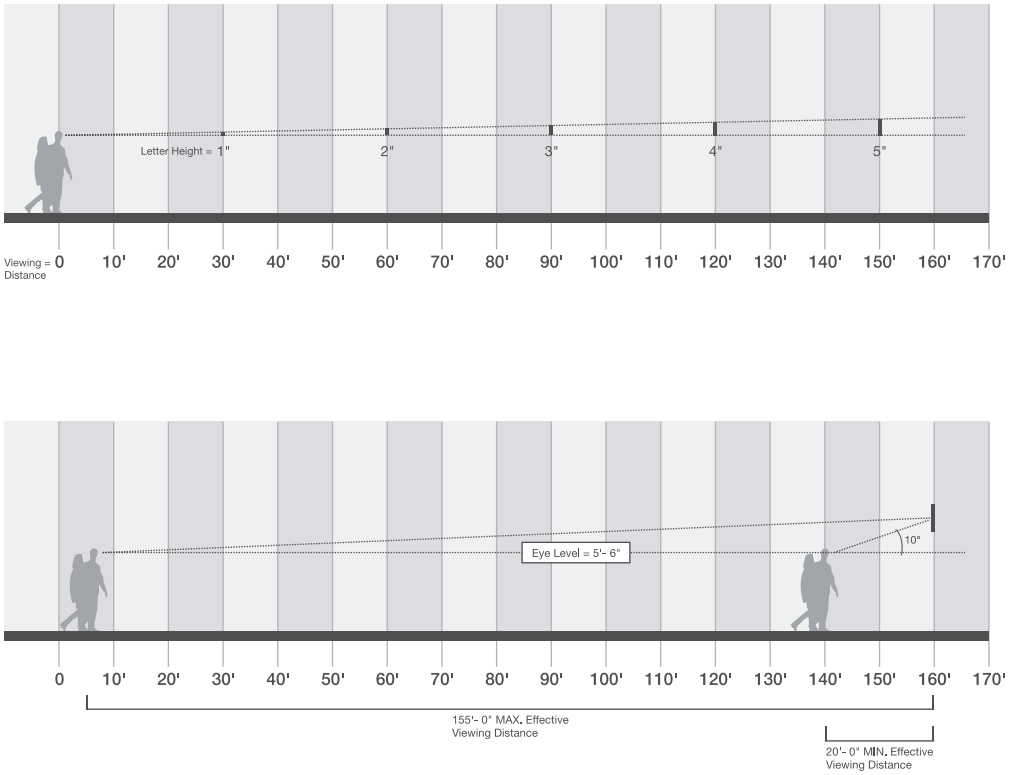
#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility:

Legibility is another important factor within the process of securing an effective signage system. "Legibility" is defined as the recognition of the various elements that make a message or symbol understandable without the aid of additional wording or preconditioning. The following sections set the criteria for legibility related to pedestrian signs. The factors affecting legibility include sign placement, lighting, and color contrast.

It is necessary to have a consistency in placement and presentation of messaging on signs, as well as floor to ceiling height and size of sign. This will minimize the unintended interpretation of the pathways and uses of the facility. The sign location will dictate the range of visibility available for the viewer to interpret the information. If the viewer is given the appropriate distance to comprehend the messages, he/she will be able to make a decision to change direction or stay on the same pathway. It is also necessary to create a consistent size for text and symbols throughout the facility. This will create a repetitive display of information which, in turn, will make interpretation and comprehension easier. *(See Figure 1.1.12 for viewing distances)*



Viewing Distances

Figure 1.1.12

#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility cont'd:

The following criteria and principles shall be applied to the design of traffic signs to convey messages adequately to the driver:

- Signs shall be easy to detect or attract the driver's attention. The most important information needed by most drivers, requiring the most immediate decision, shall be emphasized.
- Signs shall be legible under all conditions including day, night and inclement weather, and when seen at a glance. Simple verbal messages and symbols are more legible than complex ones.
- The message shall be clearly presented, with no sources of misinterpretation and ambiguity. The message shall not depend on a high order of logical deduction for its comprehension.
- The design of the sign shall be such that the information can be quickly rejected by those drivers not needing it.
- Legend and location shall conform to the drivers expectation based on pre-trip planning or previously obtained information, signs seen earlier, and subjective evaluation of the driving situation.
- Each type of information shall be ranked for its importance to the driver and this hierarchy shall be expressed in the use of color, size, shape, message from and in rules governing location.
- The system shall prepare the driver in advance for turning decisions and upcoming road and traffic conditions. Sign location shall allow adequate time to act on the information.
- Information requiring different types of action by the driver shall be conveyed differently.
- Signs shall be installed only where the information is needed. Overuse of signs results in mistrust.
- The use of all codes and forms of message content shall be uniform throughout the system.

.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility cont'd:

An item of information is defined as being a symbol, word, syllable or discontinuous shape. As a maximum, no more than six items of information shall be used to direct a driver in finding what he or she is seeking. No more than ten items of information shall be communicated from a property to an adjacent right-of-way by any one sign.

Field tests indicate that the reaction time allowing for a driver to see a sign, read it, and respond, shall be related to the number of lanes as follows.

2 lane road	8 seconds
4 lane road	10 seconds
6 lane road	11 seconds
Freeway	12 seconds

VEHICULAR LEGIBILITY ANALYSIS

Number of Lanes	Speed (MPH)	Reaction Time (Seconds)	Distance Traveled During Reaction (Feet)	Letter Height (Inches)	Total Areas Of Sign (Sq. Ft.) Commercial Industrial	Total Areas Of Sign (Sq. Ft.) Institutional Residential Agricultural
2	15	8	176	4.5	8	6
	30		352	7	25	18
	45		528	10	50	36
	55		704	14	100	70
4	15	10	220	4	8	6
	30		440	9	40	28
	45		660	13	90	64
	55		880	17	150	106
6	15	11	242	5	13	10
	30		484	9	140	28
	45		726	14	100	70
	55		968	19	190	134
Freeway	55	12	1056	21	230	162

Vehicular Legibility Analysis

Figure 1.1.13

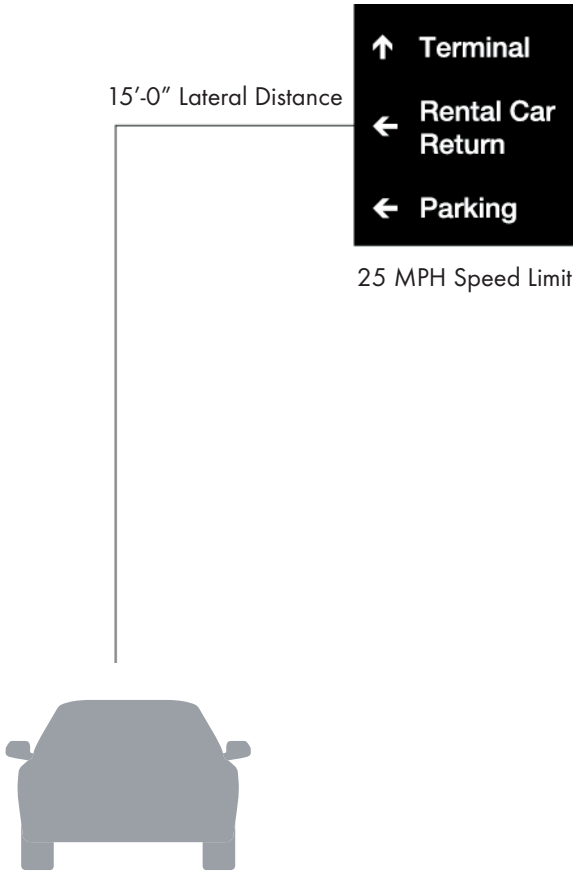
#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility cont'd:

Minimum viewing distance shall be affected by horizontal and vertical viewing angles. It is recommended that advance guide (directional) signs be spaced at least 800 feet apart, however that distance shall be lowered to 650 feet as speeds are reduced.

The legibility formula for determining letter height on roadway signs is as follows:



Exterior signs reference:

$$H=\frac{(N+6)V}{100}+\frac{S}{10}$$

H=Height of letters in inches
N=Number of Messages
V=Vehicle Speed in miles per hour
S=Lateral Distance from driver's path

Example: If a vehicle is traveling
25 MPH and the sign is 15'-0"
From the driver's path, the letter height
On the sign shall be calculated
Using the same following formula:

$$H=\frac{(6+6)\ 25\ (MPH)}{100}+\frac{15\ (Lateral\ Distance)}{10}$$

$$H=3+1.5$$

$$H=4.5\ Inches$$

Vehicular Legibility Formula

Figure 1.1.14

#	Revision	Date

Change Procedures / Sign Replacement* 1.1.4

Scope and Process for Signage Review

The following explains the scope and process for signage review .* TAA sign types are not goverened by the Guidelines and therefore should not fall under the review process. Aviation Projects, Operational Signage and Communications Projects may or may not need to comply with the Guidelines depending on project goals.

Signage projects should be addressed within the following contexts: Tenant Alteration Applications; Aviation Projects; Communication Projects; Operational Requirements and Capital Projects; the processes for developing Signage scope and design are described below.

Tenant Alteration Application: For a TAA Aviation Administration and Development's projects, the TAA Project Manager is the lead. The TAA Project Manager coordinates with the Manager of Aviation Signage at the inception of each project (whether large or small) to determine if the project will require signage. In some cases the Project will be required to develop a Signage Plan, in other cases Aviation Signage would provide the needed signage. The approach would be case by case.

Aviation Projects: Aviation Projects are lead by various staff within Aviation. The Project Manager meets with the Manager of Aviation Signage and all other stake holders at the inception of each project (whether large or small) to determine if the project will require signage. The Aviation Signage Manager works with stake holders and Project Manager to determine with signage is required and the best methodology for fabrication and whether to do work in-house or use outside vendors.

Communication Projects: For Communications Projects, various staff within Aviation and Communication takes the lead. The Aviation/Communications Team meets with the Manager of Aviation Signage and all other stake holders at the inception of each project (whether large or small) to determine if the project will require signage. The Aviation Signage Manager works with the stake holders and Team to determine what signage is required and the best methodology for fabrication and whether to do the work in-house or use outside vendors. Communications is responsible to provide design.

Operations Requirements: Operational Requirements include Parking, Ground Transportation, Security, Airline Changes, and the Airport Directory System. Aviation Signage Manager is the lead and is responsible for scope, design, fabrication, and installation.

Capital Projects: In a Capital Project, the lead person is the Project Manager. The Project Manager should meet with the Manager of Aviation Signage at the inception of each project (whether large or small) to determine if the project will require signage. In some cases the Project Manager will be required to develop a Signage Plan in other cases Aviation Signage would provide the needed signage. The approach would be case by case.

** Provided by Massport on December 17, 2004.*

#	Revision	Date

Change Procedures / Sign Replacement* 1.1.4

PHASE 1	Review Tasks	Details		Detail Tasks
Review by: Aviation Admin and Develop. Capital Programs Communications	Does Project Require Signage? If yes, what types?	Permanent	Scope	Wayfinding Location Identification Regulatory/Informational
		Temporary	Scope	Construction Signage Wayfinding
		Marketing/Communications	Scope	Roll Out
	How will signage be funded?	By Project? By Aviation Signage? By Communications?	Scope	Funding
	Does Project drive Signage Changes outside of Project Limits?		Scope	Wayfinding Location Identification Regulatory/Informational
	If so, how will signage be funded?	By Project? By Aviation Signage?	Costs	Funding Funding
	Assignment of Signage Tasks	Project Manager Designer Fabricator		

PHASE 2	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Circulation Diagrams	Arriving	Horizontal Vertical
		Departures	Horizontal Vertical
	Identify Critical Intersections		
	Develop Wayfinding Path Requirements		

PHASE 3	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Draft Sign Matrix	Sign Number Sign Type Sign Message	
	Draft Sign Location Plan		

PHASE 4	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Refine Sign Matrix	Sign Number Sign Type Sign Message	
	Refine Sign Location Plan		
	Design Sign Face Layouts		

Change Procedure / Sign Replacement

Figure 1.1.15

#	Revision	Date

All signage typography issues having to do with text size, fonts, capitalization, word spacing, letter spacing, and line spacing are discussed in this section of the document.

Acceptable Type Styles 2.1.1

All text on directional signs shall be set in Swiss 721 BT, unless otherwise specified.

Accepted specialized type styles used for identification and informational sign types are defined in the Specialized Type Style portion of this document *(See section 2.1.5)*.

Capitalization 2.1.2

Aside from special decorative uses and certain regulatory signs, all sign word messages shall be in initial uppercase followed by lowercase. Examples of exceptions:

EXIT
DO NOT ENTER
ATM
LEFT TURN ONLY
RIGHT TURN ONLY

- As required by the Americans with Disabilities Act, all tactile messages should be all upper case.
- All words should be capitalized except for articles, prepositions and conjunctions.
- A consistent capital letter height will be maintained when signs are used in sequence.

Restrictions 2.1.3

Typefaces or weights not described above should not be used. Modification of letter shapes is prohibited unless specified in the graphic standards or on the sign type layout.

Condensed, extended, slanted, outlined or otherwise distorted type should not be used.

Language to this effect should be included in the specifications for all additional airport sign projects.

#	Revision	Date

Type Style Application 2.1.4

The font used for all directional text messages on parking signs are to be a consistent version of Swiss 721 BT. For all parking signs, text should appear as equal weight using the established hierarchy of fonts of Swiss. Swiss 721 BT Bold shall be the established font for all text used on directional sign types, except for text used for all terminal identification (ID) symbols and push through letters that identify the terminals in the Parking areas.

Specialized type style shall be used exactly as specified on each sign type layout. Do not vary from the sign type application provided in the layout *(Refer to each respective sign type for the exact specifications)*.

Note: Type face size shall be regulated depending on sign type.

Swiss 721 BT Bold Type Face Sizes
Swiss 721 BT Bold shall be used at the cap height specified for each sign type in Section 3.5 (Sign Types-Layouts).



Swiss 721 BT Bold Type Face

Figure 2.1.1

#	Revision	Date

Type Style Application cont'd. 2.1.4

ABCDEFGHIJKLMNOPQ
URSTUVWXYZ
abcdefghijklmnopqurs
tuvwxyz1234567890!
@#$% ^ &*()/?””,.

Swiss 721 BT Black Condensed Type Face

Figure 2.1.2

Specialized Type Style 2.1.5



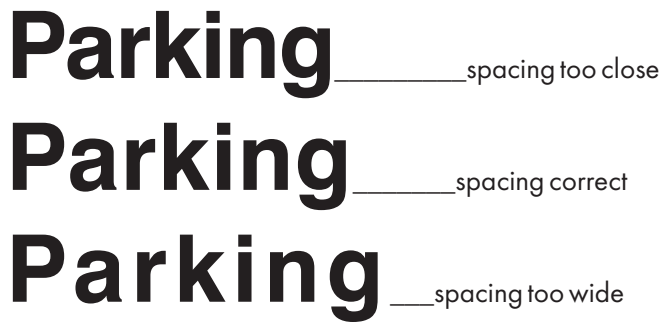
Swiss 721 BT Black Type Face

Figure 2.1.3

#	Revision	Date

Letter Spacing 2.1.6

Unless otherwise indicated, all sign messages shall follow an approximate 5% kerning inside and 10% outside. In some circumstances, modification of spacing between individual letter pairs may improve the appearance of the sign message. Samples of messages are required for all sign projects for review; and spacing recommendation shall be made where they can be shown to be advantageous. In these instances, hand-kerning may be required on internally illuminated signs to prevent "halation." Reducing normal letter or word spacing (e.g. to fit a lengthy message within a restricted area) shall be prohibited. Letter spacing should match the following:



Letter Spacing Comparison

Figure 2.1.4

#	Revision	Date

Word Spacing 2.1.7

Word spacing between related words is normally ¾ (.75) times the cap letter height. For example, a message using 3" cap letters will have 2 1/4" between words *(See Figure 2.1.5)*.



Word Spacing

Figure 2.1.5

Line Spacing 2.1.8

Line spacing shall be ½ (.50) times the cap letter height for words of a related message line. Spacing between unrelated message lines shall typically be 1 times the cap letter height *(See Figure 2.1.6)*.



Line Spacing

Figure 2.1.6

2.0 GRAPHIC STANDARDS

#	Revision	Date

The terminology/symbology has been divided into categories based on its function within the airport. These categories are as follows:

A. Principal Airport Nomenclature
B. Fundamental Airport Functions
C. Parking Facilities
D. Transportation Methods
E. Building Circulation
F. Services
G. Safety and Regulation
H. Concessions

Message Terminology 2.2.1

If a term is shown with a corresponding symbol, it shall always appear with its symbol unless otherwise noted.

Change Procedures for Terminology
Requesting changes for terminology shall require the same approval process as found in Large Scale - New Construction

Symbols - Basic Requirements 2.2.2

The symbols shown shall be used to reinforce and provide visual confirmation of sign messages for pedestrians, unless otherwise noted. These symbols were selected from those for the "Guidelines for Airport Signing and Graphics; Terminals and Landside; 'Third Edition'" developed by:

DOT - Department of Transportation
AIGA - American Institute of Graphic Arts
ATA - Air Transport Association of America
AAAE - American Association of Airport Executives
ACI-NA - Airports Council International-North America
ACC - Airport Consultants Council

These symbols are in broad use around the world. They are readily identified by the international traveling public.

Symbol Restrictions
Symbols not described in this section or not shown on the following pages shall not be used. New or customized symbols not described in this manual shall not be developed for use at BOS, unless authorized by the Massachusetts Port Authority.

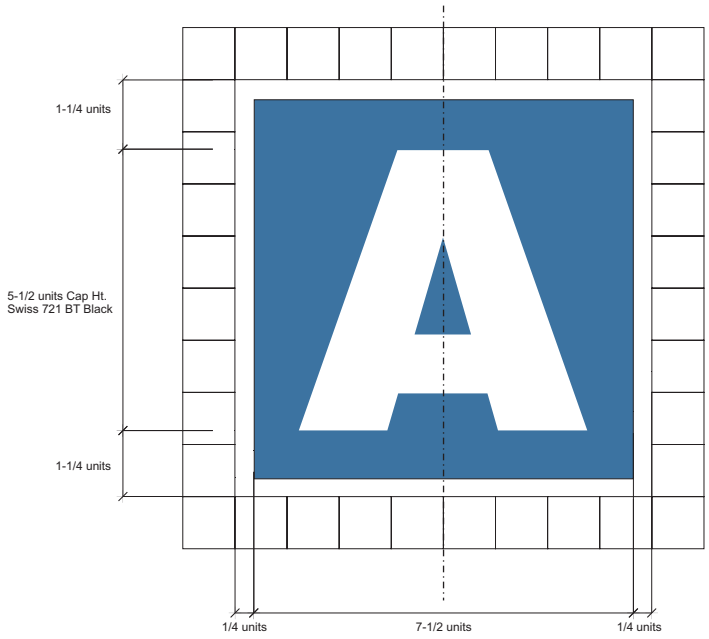
Regulatory Symbols
Symbol shape, placement and color on all vehicular regulatory signs shall conform to the Manual on Uniform Traffic Control Devices (MUTCD).

Change Procedures for Symbols
Requesting changes for symbology shall require the same approval process as found in Large Scale - New Construction.

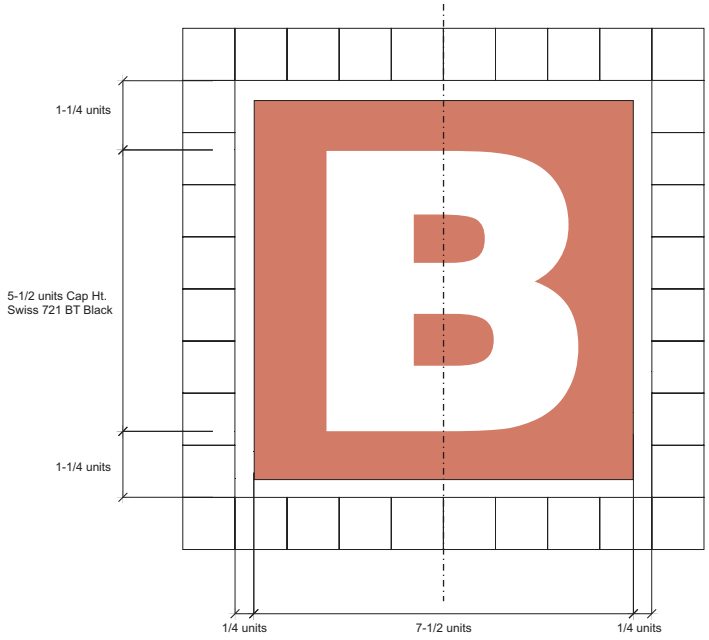
#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Terminal A Identification Icon:



Terminal B Identification Icon:



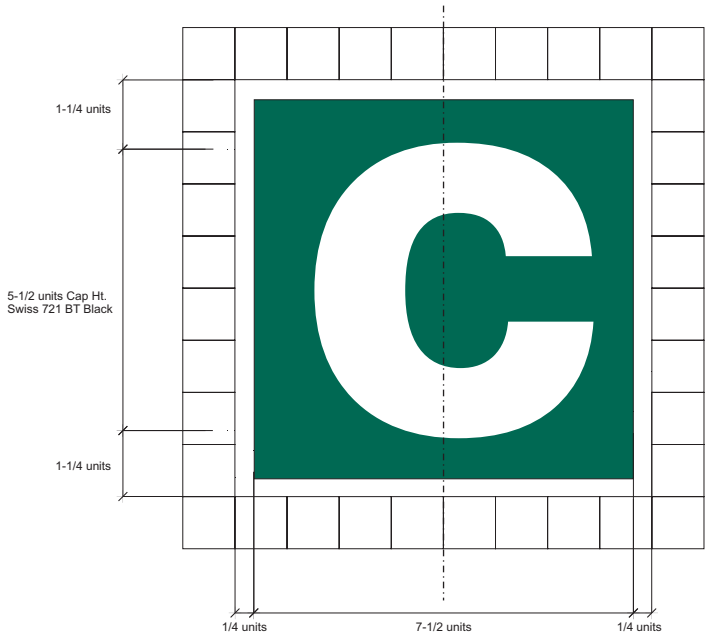
Terminal/Parking Identification Icons

Figure 2.2.1

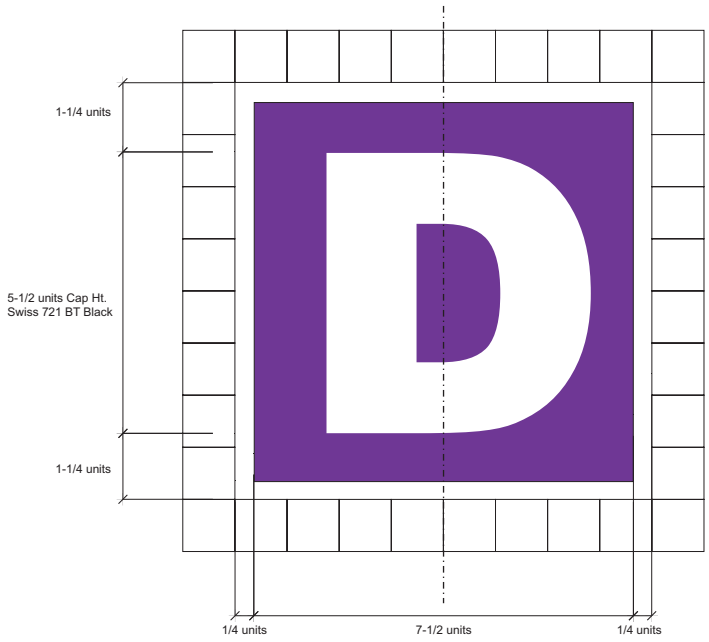
#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Terminal C Identification Icon:



Terminal D Identification Icon:



Terminal/Parking Identification Icons

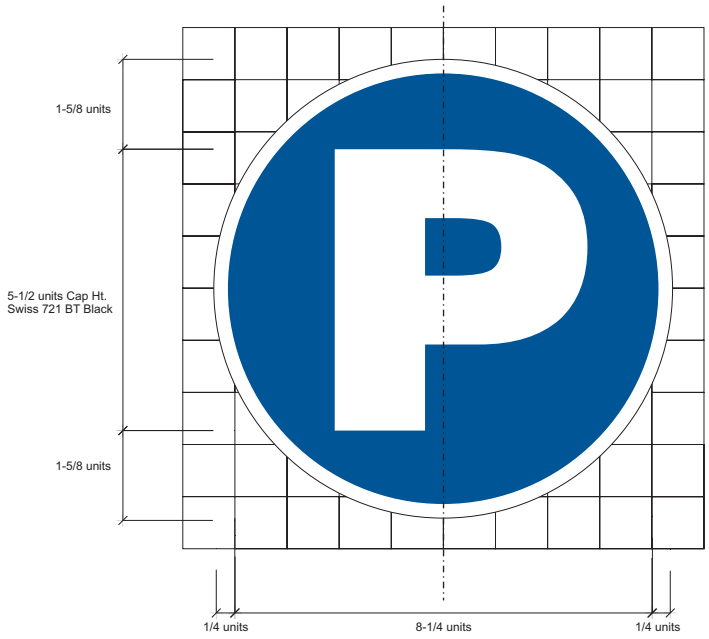
Figure 2.2.1

2.0 GRAPHIC STANDARDS

#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Parking Identification Icon:



Terminal/Parking Identification Icons

Figure 2.2.1

#	Revision	Date

Terminology and Corresponding Symbol Applications 2.2.3

Principal Airport Nomenclature

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Terminal A		• Identifies the terminal that is designated as "A". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Terminal B		• Identifies the terminal that is designated as "B". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Terminal C		• Identifies the terminal that is designated as "C". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Terminal D		• Identifies the terminal that is designated as "D". • Is always used in conjunction with the term "Terminal." • To be used as an international symbol
Parking		• Identifies the Parking facilities. • To be used as an international symbol.

Fundamental Airport Functions

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Baggage Claim		• Identifies baggage claim. • Primary information on overhead directionals.
Gates		• Identifies a gate. • Primary information on overhead directionals in the Terminals.
Ticketing		• Identifies ticketing and baggage check-in areas. • Primary information on overhead directionals in the Terminals.
Connecting Flights		• Identifies Connecting Flights. • Primary information on overhead directionals.

NOTE: The International Symbols listed in this section are those recommended by Carter and Burgess, Inc. base on the *Guidelines for Airport Signing and Graphics - Terminal and Landside, Third Edition, 2001.*

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Fundamental Airport Functions cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
International Arrivals		• Identifies the International Arrivals/meeters and greeters lobby curbside. • Symbol/ Term combination is used on directional signs only.

Parking Facilities

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Parking		• Identifies parking. • Primary information on overhead directionals curbside.

Transportation Methods

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Ground Transportation		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs and directories throughout the airport.
Active Pick-up		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Airport Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Charter Busses		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Transportation Methods cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Hotel Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Limos		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Logan Express		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Off-Airport Parking		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Rental Car Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Rental Car		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Transportation Methods cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Scheduled Busses		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Shared Vans		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Taxis		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.

Building Circulation

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Elevator		• Identifies an elevator.
Access Elevator		• Identifies handicap accessible elevator.
Escalator		• Identifies an escalator.
Stairs		• Identifies an enclosed stairwell.
Emergency Stairs		• Identifies an Emergency stairwell.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Baggage Services		• Identifies the various airline baggage service offices. • Not used on overhead directionals.
Baggage Carts		• Identifies the baggage cart dispenser. • Not used on overhead directionals.
Currency Exchange		• Identifies a currency exchange station. • Used on directories throughout the airport. • Not used on overhead directionals.
Bank		• Identifies a bank. • Used on directories throughout the airport. • Not used on overhead directionals.
ATM/Money		• Identifies an automatic teller machine. • Used on directories throughout the airport. • Not used on overhead directionals.
First Aid		• Identifies a first aid station. • Used on directories throughout the airport. • Not used on overhead directionals.
Fire Extinguisher		• Identifies Fire Extinguisher locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Telephone		• Identifies Telephone locations. • Used on directories throughout the airport. • Not used on overhead directionals.
TDD/ TTY		• Identifies location(s) for a telecommunications device for the deaf. • Used on directories throughout the airport. • Not used on overhead directionals.
Assistive Listening		• Identifies Assistive Listening Services. • Used on directories throughout the airport. • Not used on overhead directionals.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Handicap Access		• Identifies handicap locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Information		• Identifies Information locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Restrooms		• Identifies a location at which a Men's restroom and a Women's restroom occur. • Secondary information on overhead directionals throughout the airport. • Appears on identification signage throughout the airport. • Appears on directories throughout the airport.
Access Restrooms		• Identifies a location at which a handicap accessible restroom occurs. • Appears on identification signage throughout the airport. • Appears on directories throughout the airport.
Men		• Identifies a Men's restroom. • Not used on overhead directionals..
Women		• Identifies a Women's restroom. • Not used on overhead directionals.
Access Men		• Identifies a handicap accessible Men's restroom. • Not used on overhead directionals..
Access Women		• Identifies a handicap accessible Women's restroom. • Not used on overhead directionals.
Diaper Changing Station		• Identifies a diaper changing station or nursery. • Not used on overhead directionals.
Assisted Care		• Identifies an assisted care restroom. • Not used on overhead directionals.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Fax		• Identifies the location of a fax machine. • Appears on directories throughout the airport. • Not used on overhead directionals.
Postal Service		• Identifies a U.S. Mail box or Postal Office. • Appears on directories throughout the airport. • Not used on overhead directionals.
Lost and Found		• Identifies the lost and found office. • Appears on directories throughout the airport. • Not used on overhead directionals.
Hotel Information		• Identifies the location of Hotel Information. • Appears on directories throughout the airport. • Not used on overhead directionals.

Safety and Regulations

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
In-Transit Lounge		• Identifies the location of the In-Transit Lounge. • Appears on directories throughout the airport. • Not used on overhead directionals.
No Smoking		• Identifies areas where smoking is prohibited. • Not used on overhead directionals.
Smoking Permitted		• Identifies areas where smoking is permitted. • Not used on overhead directionals.
No Weapons		• Used on all FAA restrictive signage regarding the Transportation of Hazardous Materials. • Used at public entries of airport. • Not used on overhead directionals.
No Uncaged Animals		• Located at public entries of airport. • Not used on overhead directionals.
DO NOT ENTER		• Identifies a restricted area. • Not used on overhead directionals.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Safety and Regulations cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
EXIT		• Identifies a common exit to the facility. • Not used on overhead directionals.
Passport Control		• Identifies the immigration area. • Used in the FIS area only.
No Parking		• Identifies areas where parking is not permitted.
Pedestrian Caution		• Identifies areas for pedestrians where caution is recommended.

Concessions

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Food & Beverage		• Identifies category for all beverage services on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.
Food & Beverage		• Identifies category for all food services and restaurants on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.
Retail		• Identifies category for all retail services on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.

#	Revision	Date

This section defines a uniform hierarchy of messages and information to be used throughout the Boston-Logan International Airport (BOS) complex. By using the terminology set forth in this document, the designer shall be able to organize messages into three succinct categories: Primary, Secondary, and Tertiary.

Message Functions 2.3.1

Directional Messages
Directional messages are of great importance in the facility due to the fact that they are the main information source that enables passengers and visitors to choose the proper route to a specific destination point. This process involves selecting the correct path to a destination point and determining at which point a change of direction is required. Proper directional signing is necessary since the rapid movement of vehicles, visitors, employees, and passengers is essential for maximum utilization and efficiency of the facility.

Identification Messages
Identification messages mark terminals, gates, ticketing, baggage claim locations, parking facilities, as well as, provide tenants' leasing space within the BOS complex with proper public exposure to their areas and other spaces governed by the airport authority.

Informational Messages
Informational messages typically provide specific and supplementary information about the airport services and functions. Also there are orientational messages that are often graphic, such as maps, so that visitors can develop a sense of the airport layout and their location within the airport.

Regulatory/ Safety Messages
Regulatory/safety messages relate to Federal Aviation Administration (FAA) requirements and recommendations as well as other federal, state, and city regulations. In general, these messages provide passengers with travel advice, warnings and legal restrictions.

Temporary Messages
Temporary messages fall into a separate category of messages. Temporary signs shall be used on an interim basis while permanent signs are in the process of repair or maintenance and as tentative signs while permanent signs are under construction.

.

#	Revision	Date

Message Hierarchy Relationships 2.3.2

Clear and concise information presented by Primary and Secondary signing systems ensures efficient passenger circulation. Tertiary signs must be coordinated with Primary and Secondary signs and interior design elements. This category of signs shall be distinguished from other signs by graphic methods.

Primary Messages
This information shall be the largest and most visible information on each sign. Primary information shall include:

- Exterior direction to and identification of Terminals, Arrivals, Departures, Ground Transportation, Parking, etc.

Secondary Messages
This information supplements or reinforces information already conveyed by the primary messages and signs listed above. It usually indicates the auxiliary services and support functions of the facility. Secondary information is to include:

- Exterior direction and identification of Ground Transportation, airline names, and Parking.

Tertiary Messages
Tertiary information supplements both the primary and secondary messages and is usually intended to inform visitors of regulations and warnings. All of the regulatory/ safety signs are generally considered to be tertiary. Tertiary information is to include:

- All "No Smoking" messages
- FAA required warning and information
- Other messages required by code

Functions and Hierarchy Relationships
It is important to understand that the same message may fall under a different category depending on its use. For example, a visitor on the roadway approaching the Terminal may find the term "Parking" as the primary message. However, the same term may also be found by a visitor in the Ground Transportation area and be considered secondary.

In general, emphasis shall be placed on the reduction of signs and sign content where possible. Additionally, the sign system shall move from the general to the more specific, as a user traverses the airport areas.

#	Revision	Date

Message Hierarchy Relationships cont'd. 2.3.2

Functions and Hierarchy Relationships (cont'd):
Critical to the smooth flow of pedestrian and vehicular traffic is the need for visual continuity amongst messages and information of the same hierarchy, thus eliminating any elements which may interrupt the scheme or confuse the visitors.

The relationship between message function and message hierarchy serves to create a foundation for the classification of and determination of basic sign types. The tables on the following pages illustrate this relationship for the exterior messages required for BOS.

#	Revision	Date

Message Hierarchy Relationships cont'd. 2.3.2

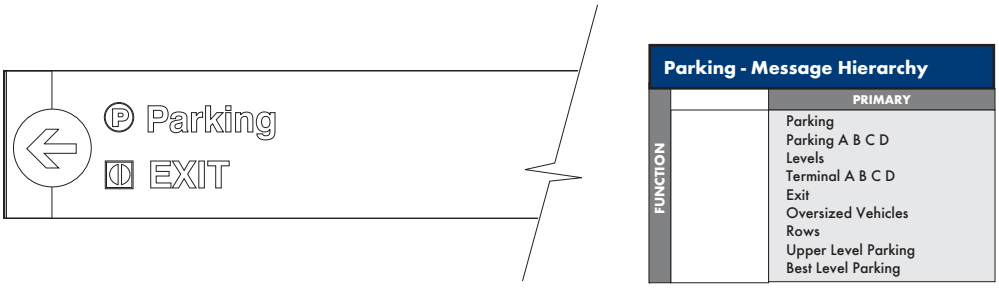
Figures 2.3.1 and 2.3.2 demonstrate the hierarchy in which the messages are organized when signing for parking areas within the facility. The message hierarchy is used to assist designers in grouping messages for directional , identification and information sign types. Primary messages should always be grouped with primary messages. If there is need for a secondary message on the same sign, its importance will always be secondary to all primary messages. The designer may have to place the secondary message on a secondary sign type. *Figure 2.3.2 shows an example of messaging on a 2 level directional sign.*

Parking - Message Hierarchy

MESSAGE FUNCTION	PRIMARY	SECONDARY	TERTIARY
Directional	Parking Parking A B C D Levels Terminal A B C D Exit Oversized Vehicles Rows Upper Level Parking Best Level Parking	Elevators	
Identification	Central Parking Terminal B Parking Level Identification Row Identification Levels-to-	Elevators Stairs Telephone	
Information or Orientation	Garage Directory Parking Clearance Parking fees and Guidelines		
Regulatory or Safety	Access Parking Active Loading No Parking No Parking Tow Zone Exit Reserved Parking Only Special Permit Only Van Accessible Parking	Authorized Limos Only Authorized Use Only Emergency Exit Only ENTER DO NOT ENTER Designated Smoking Area Fire Lane No Smoking No Pedestrians No Stopping	Pedestrians use Caution when crossing All FAA notices and required signs AUTHORIZED PERSONNEL ONLY

Parking - Message Hierarchy

Figure 2.3.1



Parking - Directional Primary Message Hierarchy Example
N . T . S .

Figure 2.3.2

#	Revision	Date

The arrow standards and applications portion of this document shall define the standards for arrow orientation, sizes, application and placement on directional signage at Boston-Logan International Airport (BOS).

Arrow symbols used as directional elements are more flexible and require less sign layout space than messages. Careful review of sign layouts must be done in order to produce proper proportioning between arrows, messages, symbols and sign panel dimensions *(See Arrow Placement Figure 2.4.4 for placement examples)*.

Arrow Orientations 2.4.1

The orientation and directional information that arrow symbols intend to convey is of equal importance to the consistent use of the recommended single style arrow. The arrow orientation to convey "straight ahead" is of particular interest. Either "up arrow" or the "down arrow" can be used for pedestrian specific traffic. However, Vehicular specific traffic typically uses only the “down arrow” to convey “straight ahead” information. Once a method has been selected for the "straight ahead" arrow orientation, consistent application should be continued throughout the signage system. The following are a few guidelines for the use of arrows:

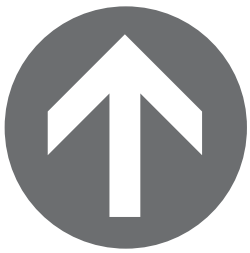
- The standard arrow can be rendered in eight (8) different orientations for pedestrian specific traffic and five (5) for vehicular specific traffic. No alternate orientations are acceptable, unless approved by Massport.
- Pedestrian Signs: Arrow orientation should follow the guidelines provided in this section. Straight-ahead pedestrian movement should be indicated by upward-facing arrows, unless a downward-facing arrow can be shown to be clearly advantageous in a specific circumstance. Straight downward-facing arrows are normally reserved to indicate movement to a lower level *(see Figure 2.4.1)*.
- Vehicular Signs: Arrow orientation should follow the guidelines provided in this section. Straight-ahead vehicular movement should be indicated by downward facing arrows, unless an upward facing arow can be shown to be clearly advantageous in a specific circumstance *(See figure 2.4.2)*.

#	Revision	Date

Arrow Orientations cont'd. 2.4.1



Up to the Left



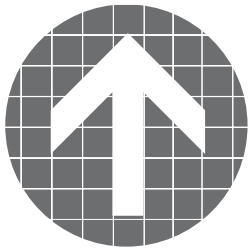
Up and/or Straight Ahead

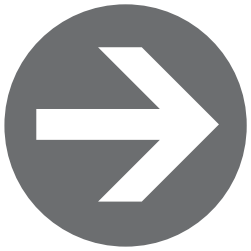


Up to the Right

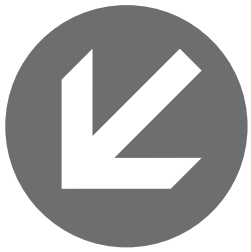


To the Left

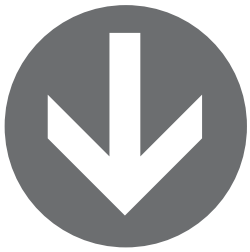




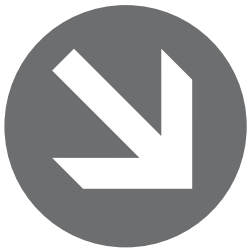
To the Right



Down to the Left



Down



Down to the Right

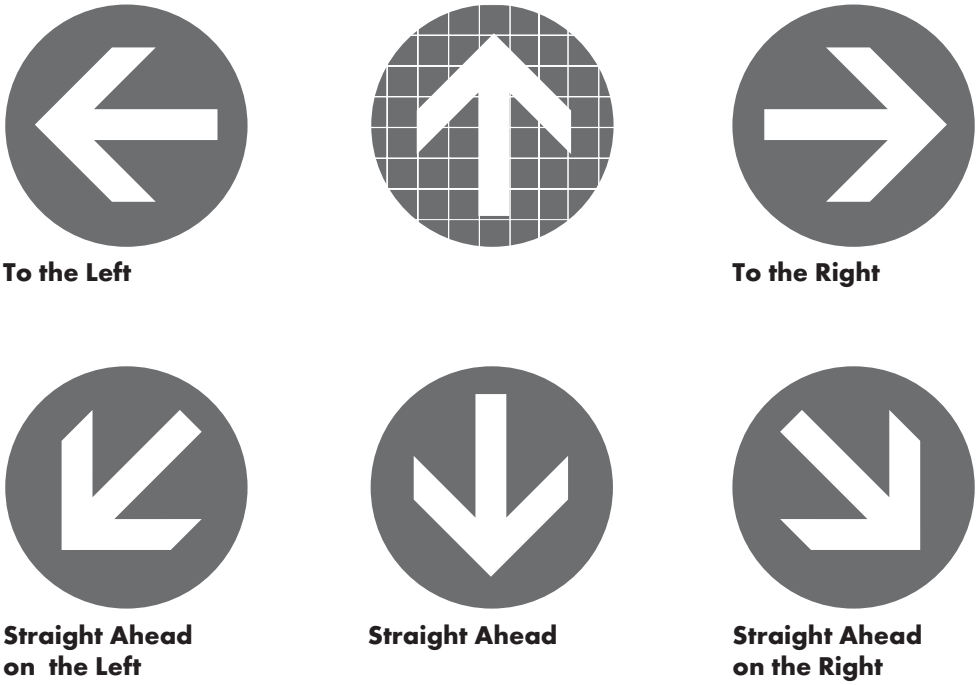
Pedestrian Arrow Orientation
N.T.S.

Figure 2.4.1

2.0 GRAPHIC STANDARDS

#	Revision	Date

Arrow Orientations cont'd. 2.4.1



Vehicular Arrow Orientation
N.T.S.

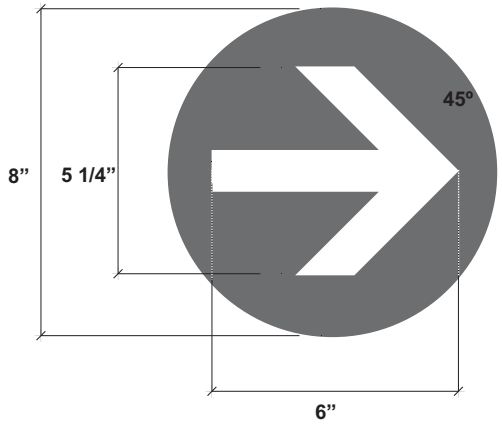
Figure 2.4.2

#	Revision	Date

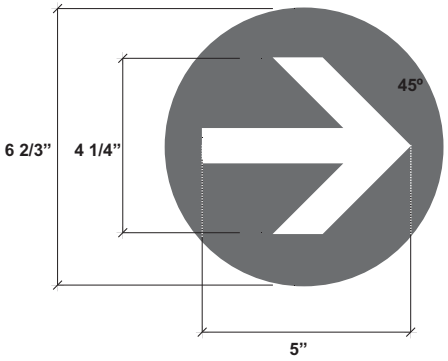
Arrow Sizes 2.4.2

These figures define the arrow sizes that shall be used throughout Parking. All vehicular primary signs shall utilize a 10 ½" x 7 1/4" or 9" x 6 ½" arrow size depending on sign type *(See Section 3.5 for Sign Type Layouts)*. All vehicular secondary signs shall use a 6"x 5 1/4"arrow size. All pedestrian primary or secondary signs shall utilize a 6" x 5 1/4" arrow size.

Vehicular



Pedestrian

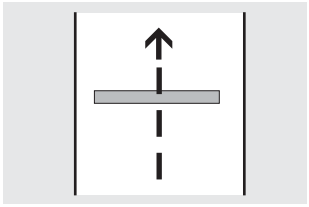
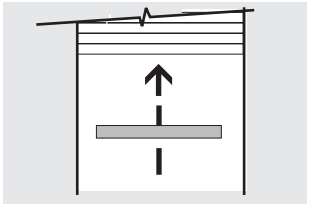
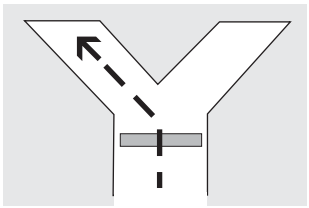
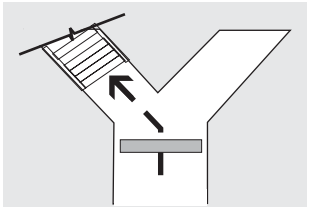
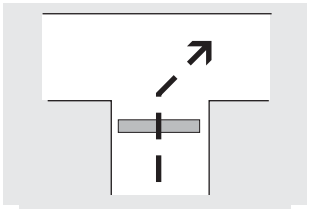
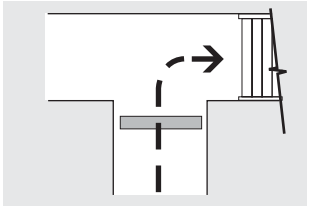


Arrow Sizes
N.T.S

Figure 2.4.2

#	Revision	Date

Arrow Application/Orientation 2.4.3

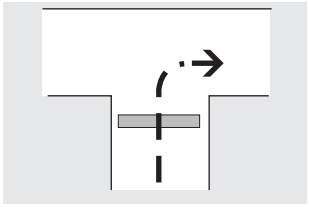
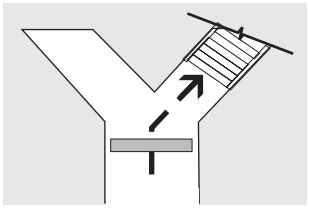
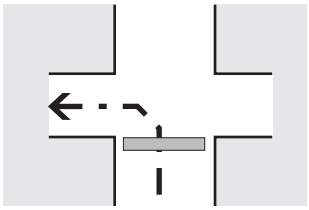
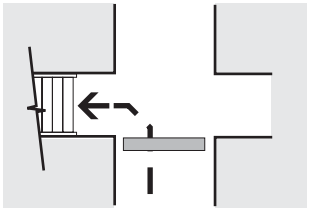
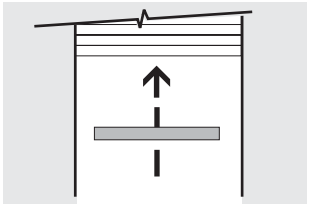
APPLICATION/ ORIENTATION	LOCATION PLAN	INTERPRETATION
		Straight Ahead
		Up
		Ahead on Left
		Up on Left
		Ahead on Right
		Up on Right

Pedestrian Arrow Application
N.T.S.

Figure 2.4.4

#	Revision	Date

Arrow Application/Orientation cont'd. 2.4.3

APPLICATION/ ORIENTATION	LOCATION PLAN	INTERPRETATION
		Right
		Down on Right
		Left
		Down on Left
		Down

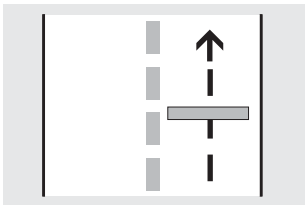
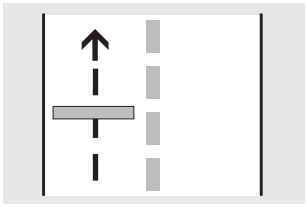
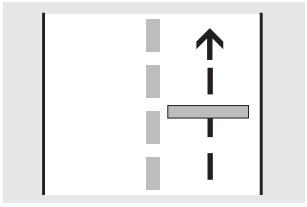
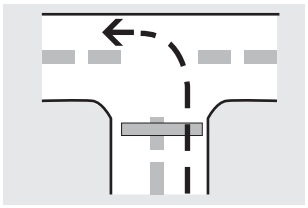
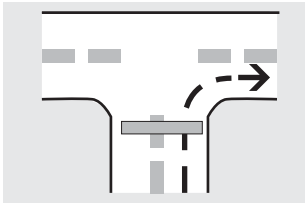
Pedestrian Arrow Application cont'd.
N.T.S.

Figure 2.4.4

2.0 GRAPHIC STANDARDS

#	Revision	Date

Arrow Application/Orientation cont'd. 2.4.3

APPLICATION/ ORIENTATION	LOCATION PLAN	INTERPRETATION
		Straight Ahead
		Ahead on Left
		Ahead on Right
		Left
		Right

Vehicular Arrow Application
N.T.S.

Figure 2.4.5

2.0 GRAPHIC STANDARDS

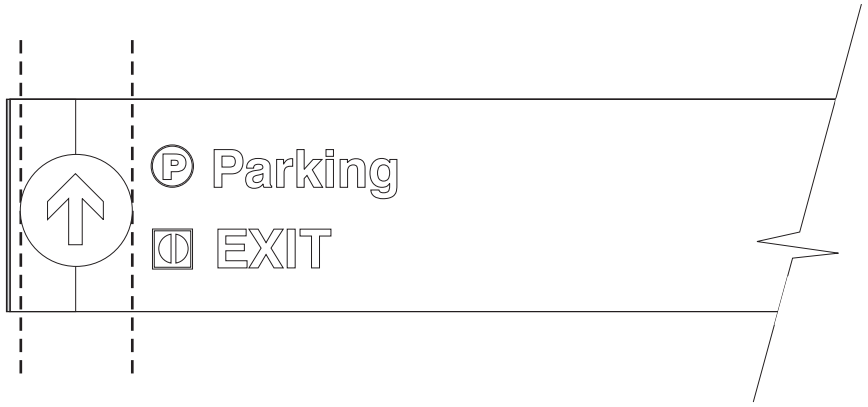
#	Revision	Date

Arrow Placement 2.4.4

The placement of arrows on sign faces should conform to the standard guidelines provided. Arrows may not be positioned in any other location on the sign face.

The following are placement guidelines and restrictions:

- Arrows should NOT point into text.
- Left-facing arrows should be located on the left side of signs, and right-facing arrows should be located on the right side of signs.
- Upward-facing arrows are normally located closest to the flow of traffic.
- Interior Signs: Arrows should be held within a designated vertical column along the left or right side of the message area (see Figure 2.4.6).



* See Sign Type Index - Section 3.4 for arrow location dimensions

Arrow Placement
N.T.S.

Figure 2.4.6

#	Revision	Date

This section of the document shall specify colors and applications that are to be used in the Parking areas.

Color Specifications 2.5.1

Sign Color System - Parking

Color Application	Color	Pantone Equivalent	Vinyl Equivalent	Paint Equivalent
Sign Face	Black	*Process Black*	*3M Black Opaque* Film #7725-12*	*MAP Paint* 41-335 Black Anodic*
Text	White	*White*	*3M Translucent White* Film #3630-20*	*MAP Paint* 42-202 Natural White*
Arrows International Symbols	White	*White*	*3M Translucent White* Film #3630-20*	*MAP Paint* 42-202 Natural White*
Terminal Identification Terminal A	Blue	*PMS 300*	*3M Translucent Intense Blue # 230/230-127*	*3M# 220/225-47 Intense Blue*
Terminal B	Red	*PMS 186*	*3M Translucent Red # 230/230-33*	*3M# 220/225-13 Tomato Red*
Terminal C	Green	*PMS 336*	*3M Translucent Green # 230/230-26*	*3M# 220/225-186 Bright Green*
Terminal D	Purple	*PMS 2593*	*3M Dark Violet # 220-98*	*3M# Color to match PMS 2593c*
Parking Identification	Blue	*Color to match PMS 294C*	*3M Vivid Blue* Film # 220-17*	*Color to match PMS 294C*
Neutral Identification	70% Black	*Color to match 70% Process Black*	3M Opaque Film (Dark Gray) #7725-41	*MAP Paint* to match 70% Process Black*
Kickplates Endcaps Directory Caps Terminal ID Letters	Aluminum Finish	*N/A*	*N/A*	*N/A*

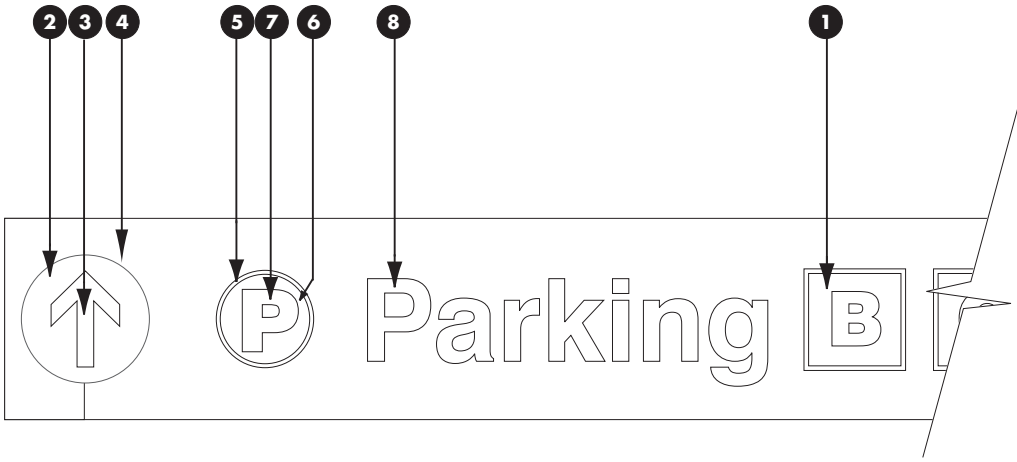
*or approved equal

Color Specification
N.T.S.

Figure 2.5.1

#	Revision	Date

Color Application 2.5.2



Sign Color Application - Parking

Color Application	Color
1 Color	
Terminal A	Blue
Terminal B	Red
Terminal C	Green
Terminal D	Purple
2 Arrow Background	70% Black
3 Arrows	White
4 Sign Face	Black
5 Symbol Frame	White
6 Parking Symbol Background	Blue
7 Symbol Image	White
8 Text	White

Color Application Examples
N.T.S.

Figure 2.5.2

#	Revision	Date

Identification System 3.1.1

Series 100 - Terminals

Sign No.	Description
101 - 150	Directional
151 - 180	Identification
181 - 199	Informational

Series 200 - Curbside

Sign No.	Description
201 - 250	Directional
251 - 280	Identification
281 - 299	Informational

Series 300 - Parking

Sign No.	Description
301 - 350	Directional
351 - 380	Identification
381 - 399	Informational

Series 400 - Roadways

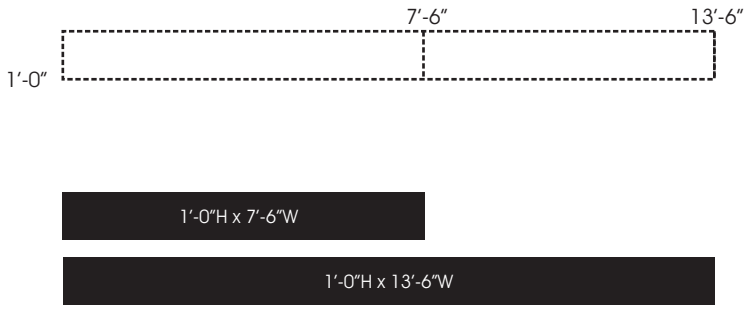
Sign No.	Description
401 - 450	Directional
451 - 480	Identification
481 - 499	Informational

Series 500 - Airport Services Buildings

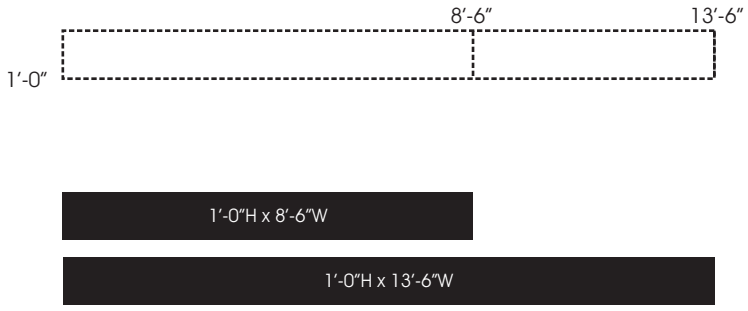
Sign No.	Description
501 - 550	Directional
551 - 580	Identification
581 - 599	Informational

#	Revision	Date

Directional - Vehicular 3.2.1



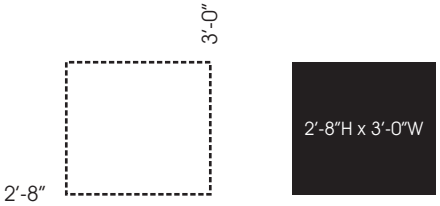
Directional - Pedestrian 3.2.2



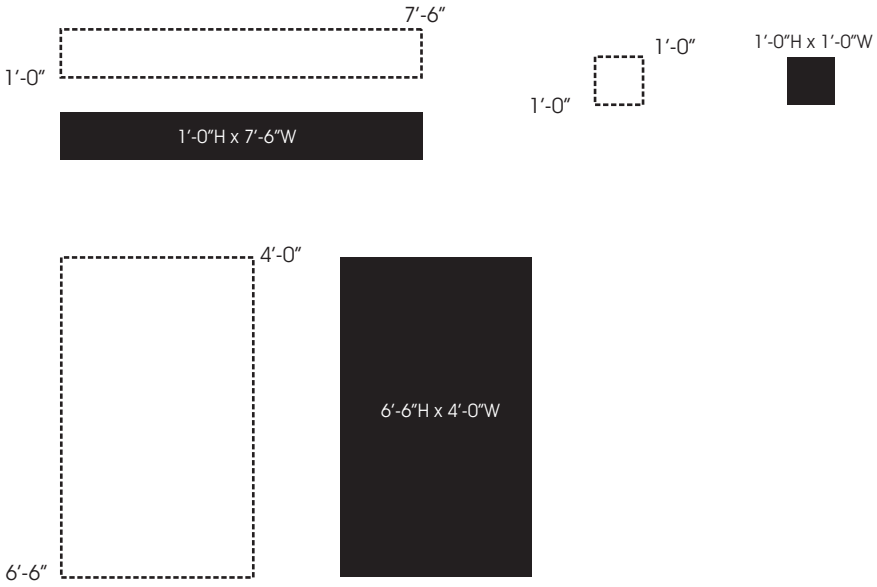
NOTE: No consistent module applies due to the fact that the majority of sign sizes were based from the existing MPA Project No. L219-C3, Central Parking Garage Repairs and Expansion.

#	Revision	Date

Identification - Vehicular 3.2.3



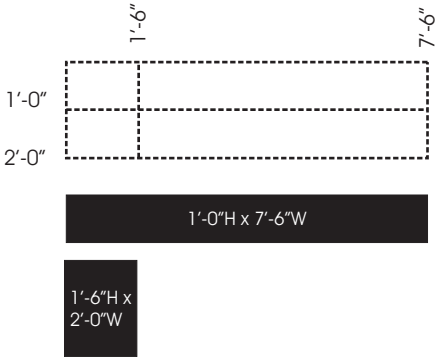
Identification - Pedestrian 3.2.4



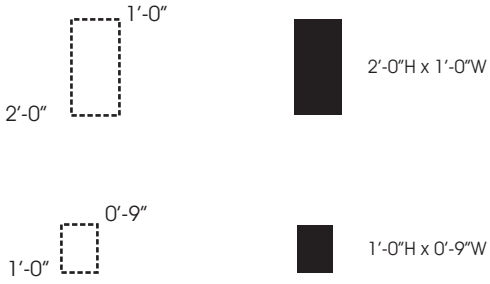
NOTE: No consistent module applies due to the fact that the majority of sign sizes were based from the existing MPA Project No. L219-C3, Central Parking Garage Repairs and Expansion.

#	Revision	Date

Informational - Vehicular 3.2.5



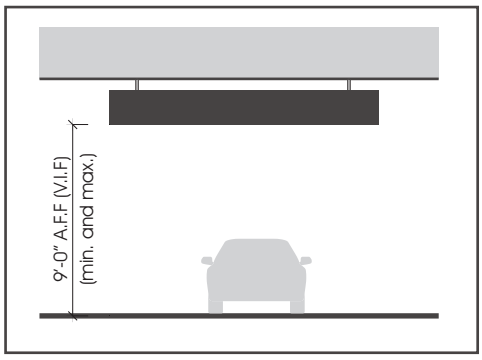
Informational - Pedestrian 3.2.6



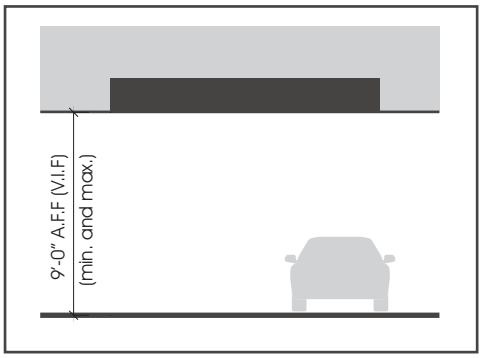
NOTE: No consistent module applies due to the fact that the majority of sign sizes were based from the existing MPA Project No. L219-C3, Central Parking Garage Repairs and Expansion.

#	Revision	Date

Directional - Vehicular 3.3.1

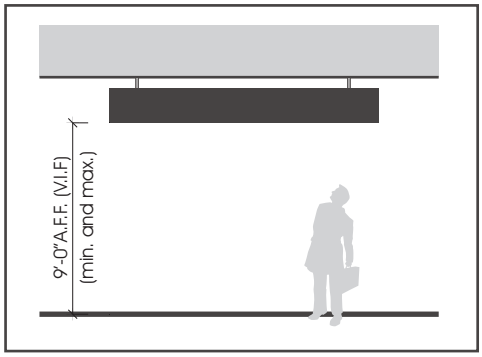


CEILING SUSPENDED

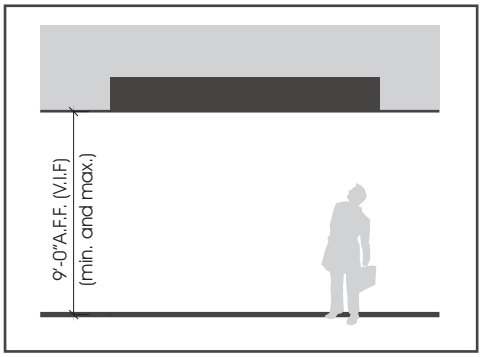


SOFFIT MOUNTED

Directional - Pedestrian 3.3.2



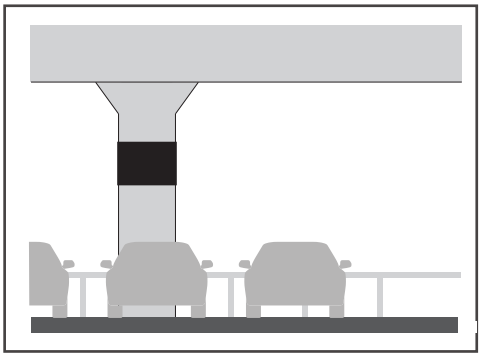
CEILING SUSPENDED



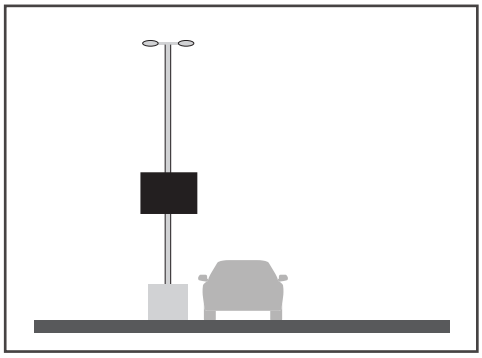
SOFFIT MOUNTED

#	Revision	Date

Identification - Vehicular 3.3.3



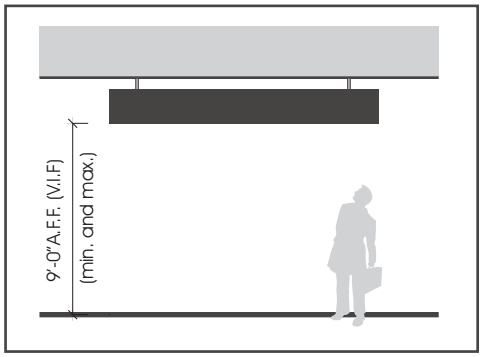
WALL MOUNTED



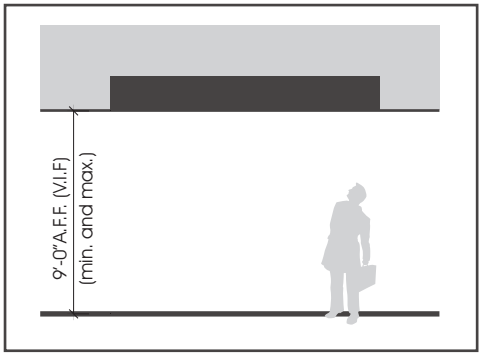
POST MOUNTED

#	Revision	Date

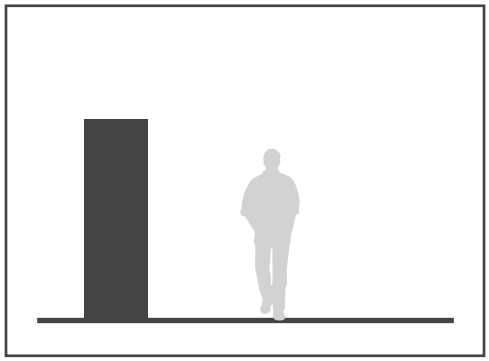
Identification - Pedestrian 3.3.4



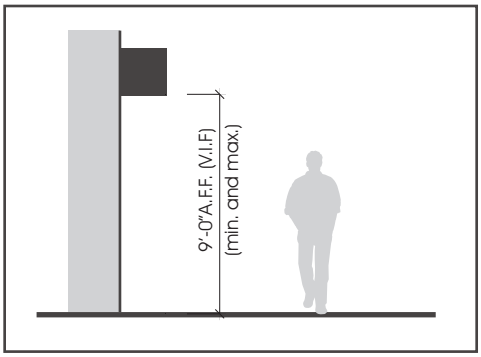
CEILING SUSPENDED



SOFFIT MOUNTED



FLOOR MOUNTED



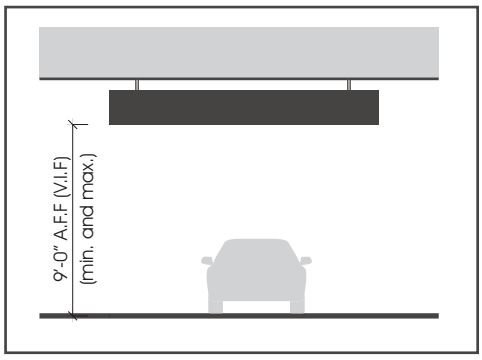
FLAG MOUNTED



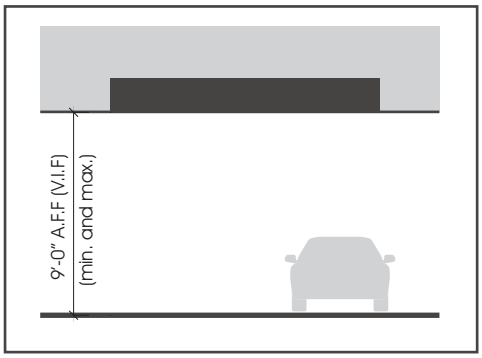
WALL MOUNTED

#	Revision	Date

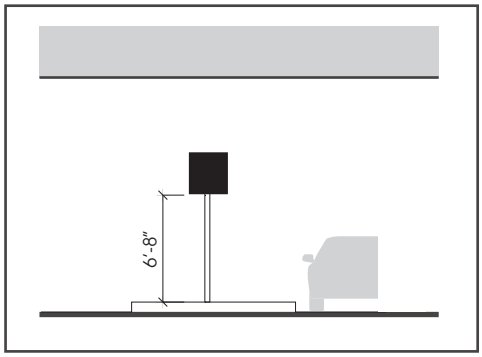
Informational - Vehicular 3.3.5



CEILING SUSPENDED

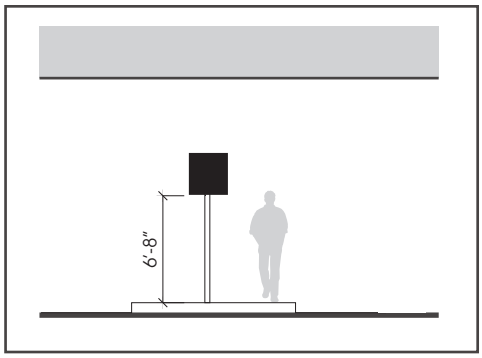


SOFFIT MOUNTED



POST MOUNTED

Informational - Pedestrian 3.3.6



POST MOUNTED



WALL MOUNTED

3.0 SIGN TYPES - PARKING

#	Revision	Date

Directional - Vehicular 3.4.1

Ceiling Suspended

ST - 301



- Description: Vehicular 1 directional - 1 level of messaging
- Overall Dimensions: 7'-6"L x 1'-0"H x 6"D
- Parking garages overhead vehicular traffic
- Internally Illuminated
- 5" Cap Ht
- 6" Arrow Size
- 3" Symbol Ht

Ceiling Suspended

ST - 302



- Description: Vehicular 2 directional - 1 level of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 6"D
- Parking garages overhead vehicular traffic
- Internally Illuminated
- 5" Cap Ht
- 6" Arrow Size
- 3" Symbol Ht

Ceiling Suspended

ST - 303



- Description: Vehicular 1 directional - 2 levels of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 6"D
- Parking garages overhead vehicular traffic
- Internally Illuminated
- 5" Cap Ht
- 6" Arrow Size
- 3" Symbol Ht

#	Revision	Date

Directional - Vehicular cont'd. 3.4.1

Ceiling Suspended **ST - 304**



- Description: Vehicular 1 directional - 1 level of messaging
- Overall Dimensions: 7'-6"L x 1'-0"H x 2 3/16"D
- Parking garages overhead vehicular traffic
- Non Illuminated
- 5" Cap Ht
- 6" Arrow Size
- 3" Symbol Ht

Ceiling Suspended **ST - 305**



- Description: Vehicular 2 directional - 1 level of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 2 3/16"D
- Parking garages overhead vehicular traffic
- Non Illuminated
- 5" Cap Ht
- 6" Arrow Size
- 3" Symbol Ht

Ceiling Suspended **ST - 306**



- Description: Vehicular 1 directional - 2 levels of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 2 3/16"D
- Parking garages overhead vehicular traffic
- Non Illuminated
- 5" Cap Ht
- 6" Arrow Size
- 3" Symbol Ht

#	Revision	Date

Directional - Vehicular cont'd. 3.4.1

Soffit Mounted

ST - 307



- Description: Vehicular 1 directional - 1 level of messaging
- Overall Dimensions: 7'-6"L x 1'-0"H x 6"D
- Parking garages overhead vehicular traffic
- Internally Illuminated
- 5" Cap Ht
- 6" Arrow Size
- 3" Symbol Ht

Soffit Mounted

ST - 308



- Description: Vehicular 2 directional - 1 level of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 6"D
- Parking garages overhead vehicular traffic
- Internally Illuminated
- 5" Cap Ht
- 6" Arrow Size
- 3" Symbol Ht

Soffit Mounted

ST - 309



- Description: Vehicular 1 directional - 1 level of messaging
- Overall Dimensions: 7'-6"L x 1'-0"H x 6"D
- Parking garages overhead vehicular traffic
- Non Illuminated
- 5" Cap Ht
- 6" Arrow Size
- 3" Symbol Ht

#	Revision	Date

Directional - Vehicular cont'd. 3.4.1

Soffit Mounted

ST - 310



- Description: Vehicular 2 directional - 1 level of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 6"D
- Parking garages overhead vehicular traffic
- Non Illuminated
- 5" Cap Ht
- 6" Arrow Size
- 3" Symbol Ht

#	Revision	Date

Directional - Pedestrian 3.4.2

Ceiling Suspended **ST - 321**



- Description: Pedestrian 1 directional - 1 level of messaging
- Overall Dimensions: 8'-6"L x 1'-0"H x 6"D
- Pedestrian walkways from garage to terminals and elevator lobbies.
- Internally Illuminated
- 4" Cap Ht
- 5" Arrow Size
- 5" Symbol Ht

Ceiling Suspended **ST - 322**



- Description: Pedestrian 2 directional - 1 level of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 6"D
- Pedestrian walkways from garage to terminals and elevator lobbies.
- Internally Illuminated
- 4" Cap Ht
- 5" Arrow Size
- 5" Symbol Ht

Ceiling Suspended **ST - 323**



- Description: Pedestrian 1 directional - 2 levels of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 6"D
- Pedestrian walkways from garage to terminals and elevator lobbies.
- Internally Illuminated
- 4" Cap Ht
- 5" Arrow Size
- 5" Symbol Ht

#	Revision	Date

Directional - Pedestrian cont'd. 3.4.2

Ceiling Suspended **ST - 324**



- Description: Pedestrian 1 directional - 1 level of messaging
- Overall Dimensions: 8'-6"L x 1'-0"H x 2"D
- Pedestrian walkways from garage to terminals and elevator lobbies.
- Non Illuminated
- 4" Cap Ht
- 5" Arrow Size
- 5" Symbol Ht

Ceiling Suspended **ST - 325**



- Description: Pedestrian 2 directional - 1 level of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 2"D
- Pedestrian walkways from garage to terminals and elevator lobbies.
- Non Illuminated
- 4" Cap Ht
- 5" Arrow Size
- 5" Symbol Ht

Ceiling Suspended **ST - 326**



- Description: Pedestrian 1 directional - 2 levels of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 2"D
- Pedestrian walkways from garage to terminals and elevator lobbies.
- Non Illuminated
- 4" Cap Ht
- 5" Arrow Size
- 5" Symbol Ht

#	Revision	Date

Directional - Pedestrian cont'd. 3.4.2

Soffit Mounted

ST - 327



- Description: Pedestrian 1 directional - 1 level of messaging
- Overall Dimensions: 8'-6"L x 1'-0"H x 6"D
- Pedestrian walkways from garage to terminals and elevator lobbies.
- Internally Illuminated
- 4" Cap Ht
- 5" Arrow Size
- 5" Symbol Ht

Soffit Mounted

ST - 328



- Description: Pedestrian 2 directional - 1 level of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 6"D
- Pedestrian walkways from garage to terminals and elevator lobbies.
- Internally Illuminated
- 4" Cap Ht
- 5" Arrow Size
- 5" Symbol Ht

Soffit Mounted

ST - 329



- Description: Pedestrian 1 directional - 2 levels of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 6"D
- Pedestrian walkways from garage to terminals and elevator lobbies.
- Internally Illuminated
- 4" Cap Ht
- 5" Arrow Size
- 5" Symbol Ht

#	Revision	Date

Directional - Pedestrian cont'd. 3.4.2

Soffit Mounted

ST - 330



- Description: Pedestrian 2 directional - 1 level of messaging
- Overall Dimensions: 13'-6"L x 1'-0"H x 6"D
- Pedestrian walkways from garage to terminals and elevator lobbies.
- Non Illuminated
- 4" Cap Ht
- 5" Arrow Size
- 5" Symbol Ht

#	Revision	Date

Identification - Vehicular 3.4.3

Wall Mounted

ST - 351

Graphics to be provided by Massport

- Description: Aisle ID Panels
- Overall Dimensions: 36" L x 32" H x 1" D
- Used on column panels on levels 1-6.
- Non Illuminated

- *Note: Use sign types L1 and L2 from the Central Parking Garage and Expansion MPA Project # L219-C3 date March 31, 2004.*

Post Mounted

ST - 352

Graphics to be provided by Massport

- Description: Aisle ID Panels
- Overall Dimensions: 36" L x 32" H x 1" D
- Used on column panels on roof level.
- Non Illuminated

- *Note: Use sign type L3 from the Central Parking Garage and Expansion MPA Project # L219-C3 date March 31, 2004.*

#	Revision	Date

Identification - Pedestrian 3.4.4

Ceiling Mounted

ST - 355



- Description: Level ID
- Overall Dimensions: 7'-6"L x 1'-0"H x 6"D
- Used overhead and above doorways to denote level identification.
- Internally Illuminated
- 5"Cap Ht
- 7" Symbol size

Ceiling Mounted

ST - 356



- Description: Level ID
- Overall Dimensions: 7'-6"L x 1'-0"H x 6"D
- Used overhead and above doorways to denote level identification.
- Non Illuminated
- 5"Cap Ht
- 7" Symbol size

#	Revision	Date

Identification - Pedestrian con't. 3.4.4

Soffit Mounted

ST - 360



- Description: Level ID
- Overall Dimensions: 7'-6"L x 1'-0"H x 6"D
- Used overhead and above doorways to denote level identification.
- Internally Illuminated
- 5"Cap Ht
- 7" Symbol size

Soffit Mounted

ST - 361



- Description: Level ID
- Overall Dimensions: 7'-6"L x 1'-0"H x 6"D
- Used overhead and above doorways to denote level identification.
- Non Illuminated
- 5"Cap Ht
- 7" Symbol size

#	Revision	Date

Identification - Pedestrian con't. 3.4.4

Floor Mounted

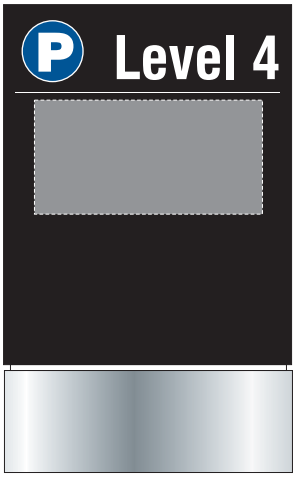
ST - 365



- Description: Terminal Icon
- Overall Dimensions: 48" L x 54" H x 8" D
- Used in Parking garages on levels G - 6.
- Internally Illuminated
- 34" Terminal ID

Floor Mounted

ST - 366



- Description: Floor Level ID Pylon
- Overall Dimensions: 4'-0"L x 6'-6"H x 8"D
- Used at pedestrian islands from levels G - 6.
- Non Illuminated
- 5" Cap Ht

#	Revision	Date

Identification - Pedestrian con't. 3.4.4

Wall Mounted

ST - 370



- Description: Terminal Icon
- Overall Dimensions: 80" L x 91" H x 6 3/8" D
- Used on facade above roof canopy on level 7
- Internally Illuminated
- 59" Terminal Icon

Wall Mounted

ST - 371

Graphics to be provided by Massport

- Description: Lobby floor ID Panels
- Overall Dimensions: 42" L x 56" H x 1" D
- Used at Terminal Lobbies (Levels G - 7)
- Non Illuminated

- *Note: Use sign type H1 from the Central Parking Garage and Expansion MPA Project # L219-C3 date March 31, 2004.*

Wall Mounted

ST - 372

Graphics to be provided by Massport

- Description: Lobby floor ID Panels
- Overall Dimensions: 1'-2" L x 1'-6" W x 3/16" D
- Used at Stair Cores (Levels G - 7)
- Non Illuminated

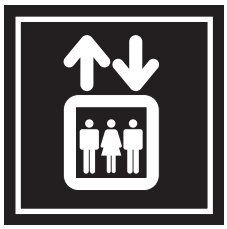
- *Note: Use sign type H2 from the Central Parking Garage and Expansion MPA Project # L219-C3 date March 31, 2004.*

#	Revision	Date

Identification - Pedestrian con't. 3.4.4

Flag Mount

ST - 375



- Description: Elevator ID
- Overall Dimensions: 1'-0"L x 1'-0"H x 7"D
- Used at elevator banks at pedestrian lobbies.
- Non Illuminated
- 10 ½" Icon

#	Revision	Date

Informational -Vehicular 3.4.5

Post Mounted

ST - 381



- Description: Parking Regulatory
- Overall Dimensions: 1'-6"L x 2'-0"H x 0'-½"D
- Used in and around parking garage areas.
- Non Illuminated
- 2 ½" Primary Cap Ht
- Use colors as specified in the layouts. Colors specified not Terminal specific.

Post Mounted

ST - 382



- Description: Handicap Regulatory
- Overall Dimensions: 1'-6"L x 2'-0"H x 0'-½"D
- Used in and around parking garage areas.
- Non Illuminated
- 2 ½" Primary Cap Ht
- Use colors as specified in the layouts. Colors specified not Terminal specific.

#	Revision	Date

Informational -Vehicular con't. 3.4.5

Ceiling Suspended

ST - 383



- Description: Vehicular Clearance ID
- Overall Dimensions: 1'-0"H x 0'-½"D (Length to be determined by number of vehicle lanes.)
- Used overhead to delineate height clearance for vehicular traffic.
- Non Illuminated
- 7"Cap Ht.

Soffit Mounted

ST - 384



- Description: Vehicular Clearance ID
- Overall Dimensions: 1'-0"H x 0'-½"D (Length to be determined by number of vehicle lanes.)
- Used overhead to delineate height clearance for vehicular traffic.
- Non Illuminated
- 7"Cap Ht.

#	Revision	Date

Informational - Pedestrian 3.4.6

Post mount

ST - 391



- Description: Pedestrian Regulatory
- Overall Dimensions: 1'-6"L x 2'-0"H x 0'-½"D
- Used in and around parking garage areas.
- Non Illuminated
- 1 2/3" Cap Ht
- 7" Symbol Ht

Post Mount

ST - 392



- Description: General Regulatory
- Overall Dimensions: 0'-9"L x 1'-0"H x 0'-½"D
- Used in and around parking garage areas.
- Non Illuminated
- 2" Cap Ht
- 4" Symbol Ht

#	Revision	Date

Informational - Pedestrian con't. 3.4.6

Wall Mounted

ST - 393

Graphics to be provided by Massport

- Description: Garage Directory Panels
- Overall Dimensions: 42" L x 56" H x 1" D (Pedestrian Directory); 33 3/16" L x 30 7/8" H x 3/16" W (Garage Directory)
- Used in and around parking garage areas.
- Non Illuminated

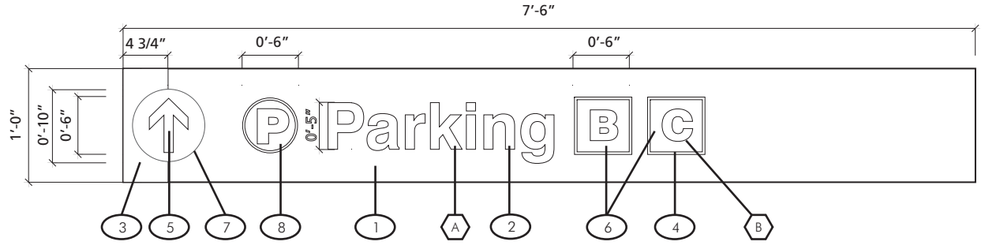
Wall Mounted

ST - 394

Graphics to be provided by Massport

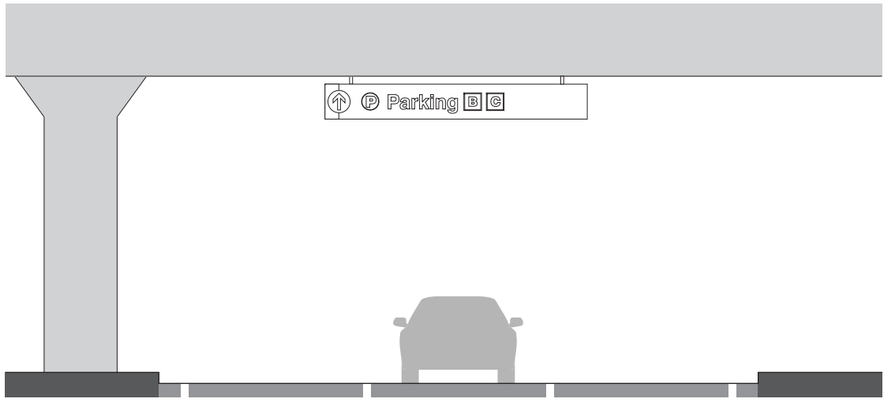
- Description: Elevator Button Directory
- Overall Dimensions: 9" L x 1'-0" H x 1/8" D
- Used inside elevator cabs above call buttons
- Non Illuminated

#	Revision	Date



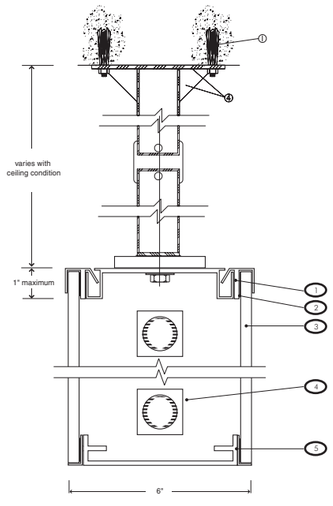
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



SECTION

Scale: N.T.S.

Overhead - Directional ST - 301

DESCRIPTION: 1 directional - 1 level of messaging.

LOCATION: Parking garages overhead vehicular traffic.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: Translucent Acrylic (White)
3. Band: Translucent Acrylic (White)
4. Symbol: Translucent Acrylic (White)
5. Arrow: Translucent Acrylic (White)
6. Terminal I.D :
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41
8. Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 6"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Internally Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

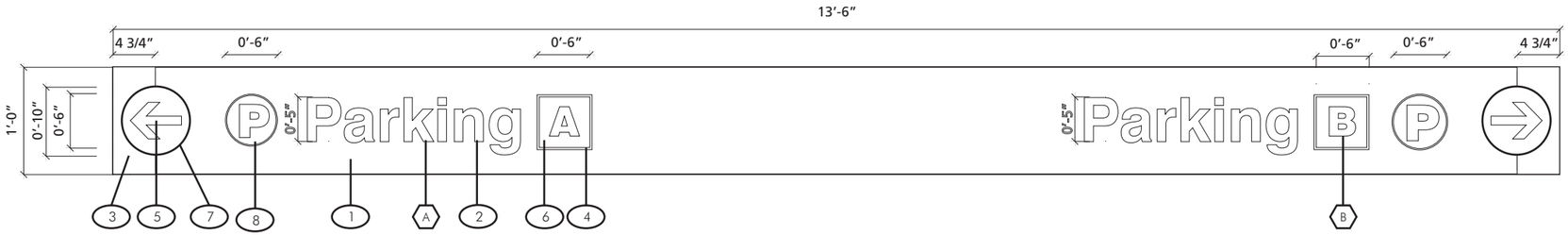
NOTES:

1. Cabinet sides and all exposed edges painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Fluorescent lamps T12 3500K at intervals needed for even illumination across graphics.
5. Magnetic closure at bottom edge to secure

Directional Signs - Vehicular 3.5.1

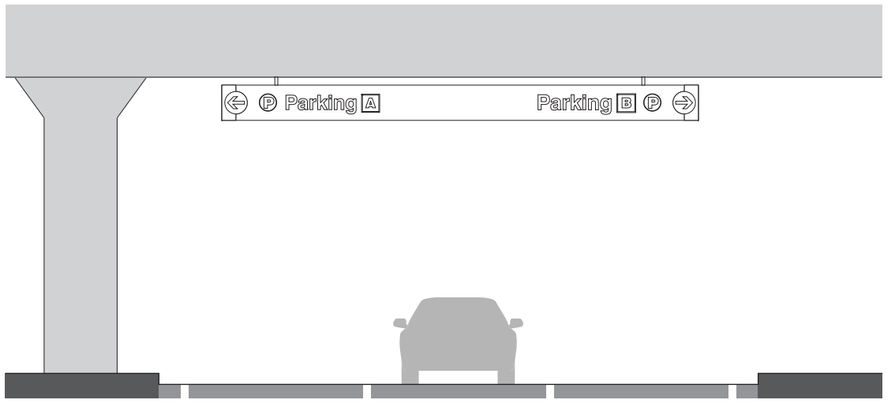
3.0 SIGN TYPES - PARKING

#	Revision	Date



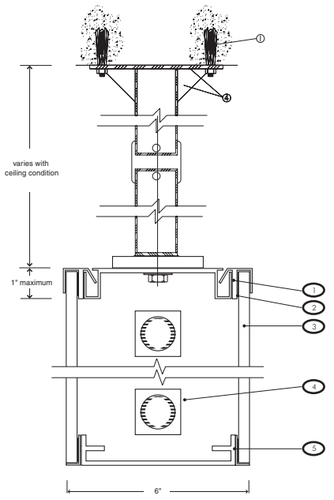
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



SECTION

Scale: N.T.S.

Overhead - Directional ST - 302

DESCRIPTION: 2 directional - 1 level of messaging.

LOCATION: Parking garages overhead vehicular traffic.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41
- 8 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 6"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Internally Illuminated.

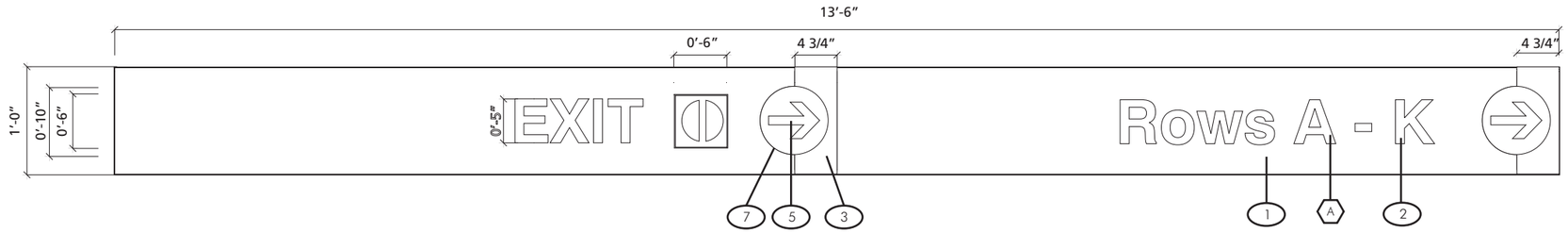
REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Cabinet sides and all exposed edges painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Fluorescent lamps T12 3500K at intervals needed for even illumination across graphics.
5. Magnetic closure at bottom edge to secure

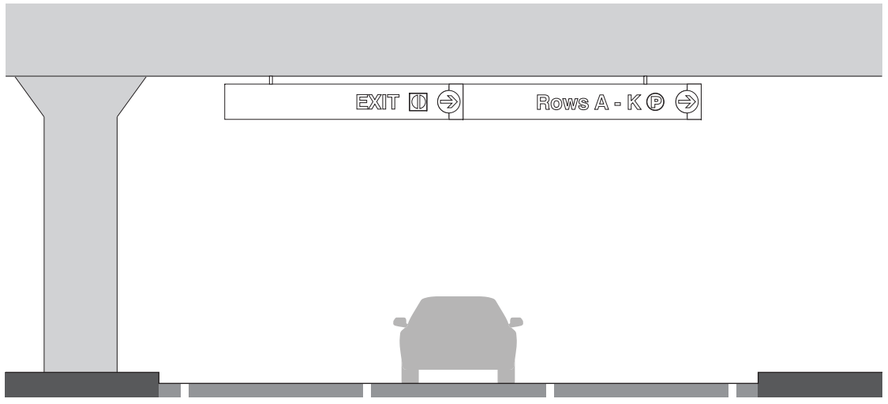
Directional Signs - Vehicular 3.5.1

#	Revision	Date



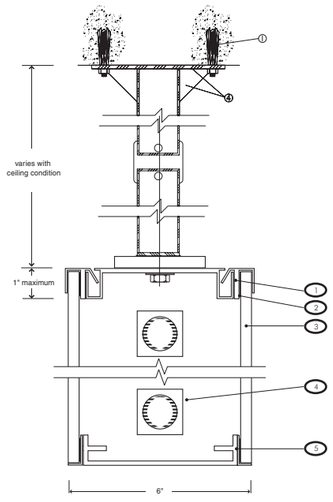
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



SECTION

Scale: N.T.S.

Overhead - Directional ST - 303

DESCRIPTION: 1 directional - 2 levels of messaging.

LOCATION: Parking garages overhead vehicular traffic.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41
- 8 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 6"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Internally Illuminated.

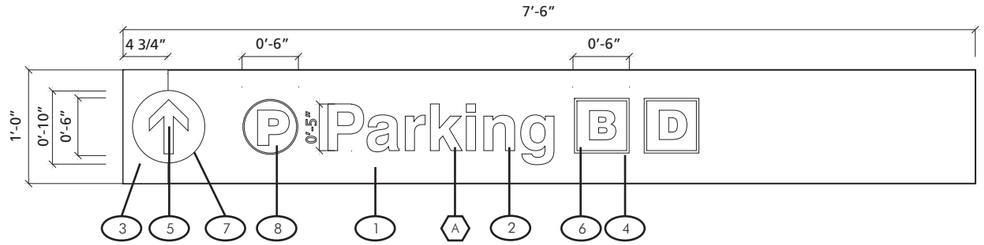
REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Cabinet sides and all exposed edges painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Fluorescent lamps T12 3500K at intervals needed for even illumination across graphics.
5. Magnetic closure at bottom edge to secure

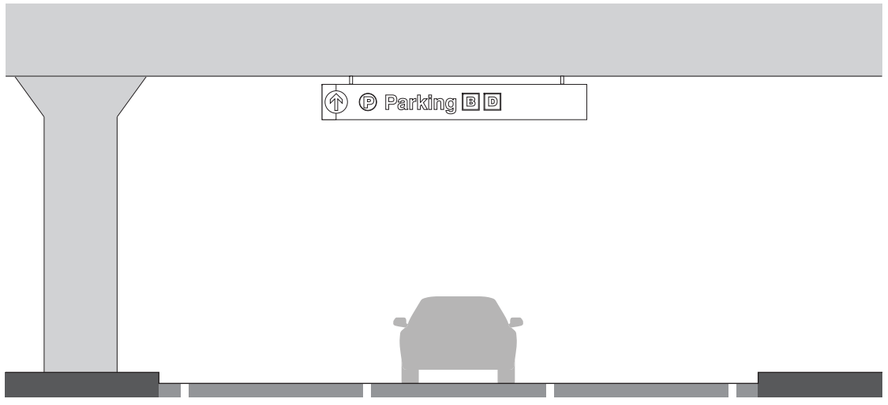
Directional Signs - Vehicular 3.5.1

#	Revision	Date



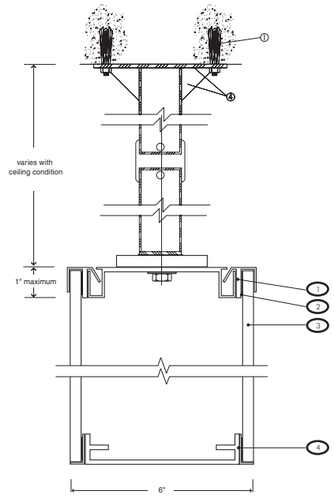
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



Overhead - Directional ST - 304

DESCRIPTION: 1 directional - 1 level of messaging.

LOCATION: Parking garages overhead vehicular traffic.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-10 or approved equal (White)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41
8. Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 6"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

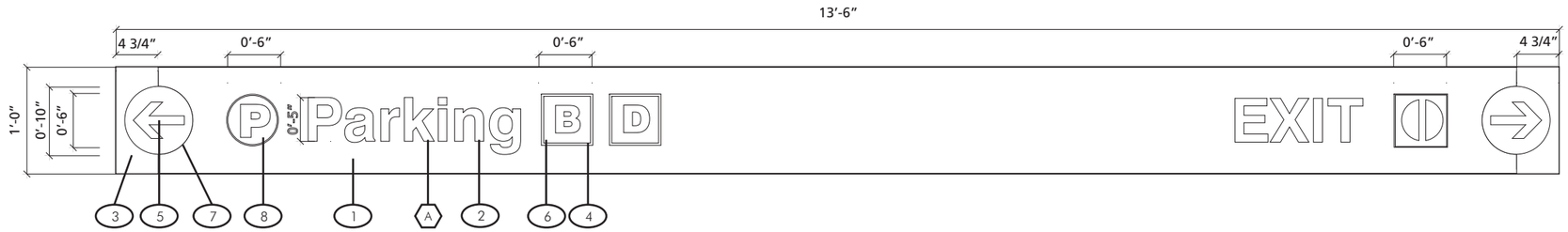
NOTES:

1. Cabinet sides and all exposed edges painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Magnetic closure at bottom edge to secure

Directional Signs - Vehicular 3.5.1

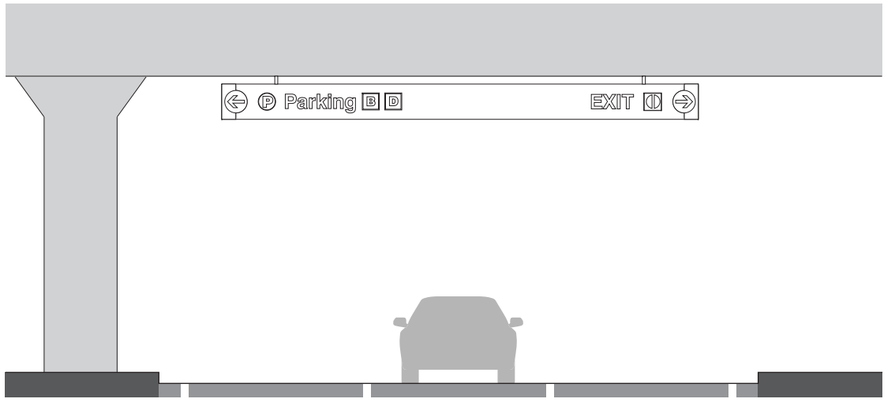
3.0 SIGN TYPES - PARKING

#	Revision	Date



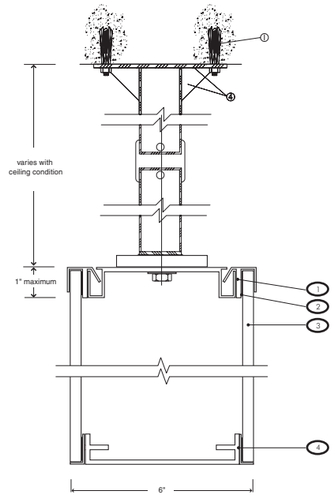
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



SECTION

Scale: N.T.S.

Overhead - Directional ST - 305

DESCRIPTION: 2 directional - 1 level of messaging.

LOCATION: Parking garages overhead vehicular traffic.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-10 or approved equal (White)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41
8. Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 6"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

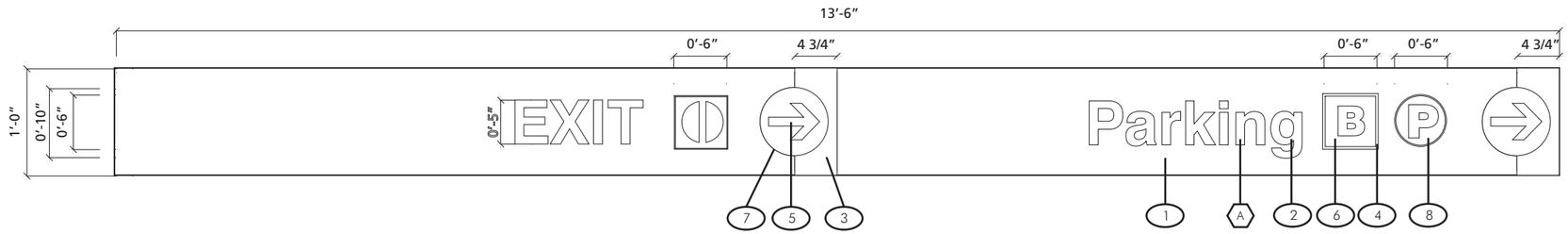
NOTES:

1. Cabinet sides and all exposed edges painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Magnetic closure at bottom edge to secure

Directional Signs - Vehicular 3.5.1

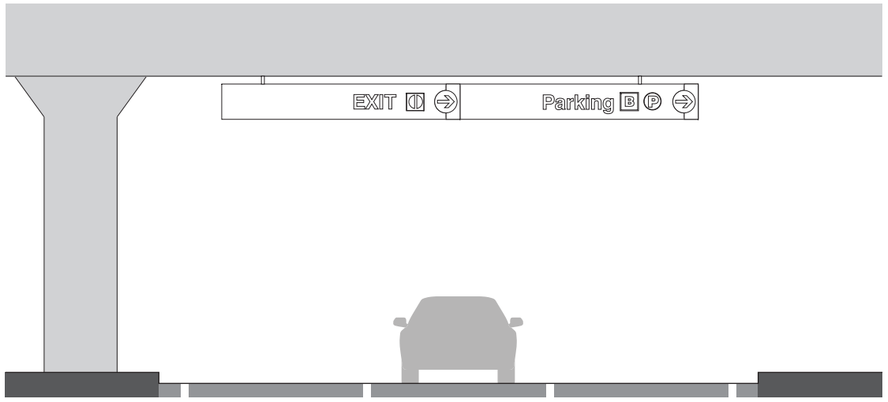
3.0 SIGN TYPES - PARKING

#	Revision	Date



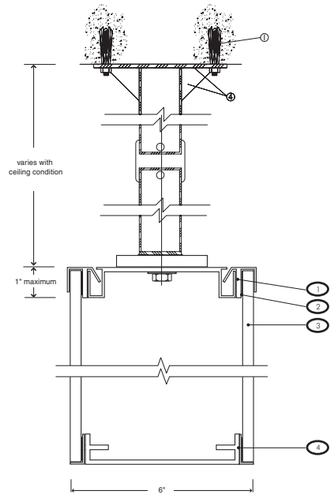
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



SECTION

Scale: N.T.S.

Overhead - Directional ST - 306

DESCRIPTION: 1 directional - 2 levels of messaging.

LOCATION: Parking garages overhead vehicular traffic.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-10 or approved equal (White)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41
8. Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 6"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Non Illuminated.

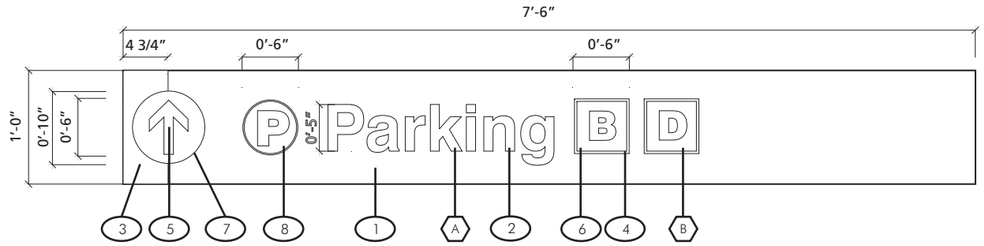
REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Cabinet sides and all exposed edges painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Magnetic closure at bottom edge to secure

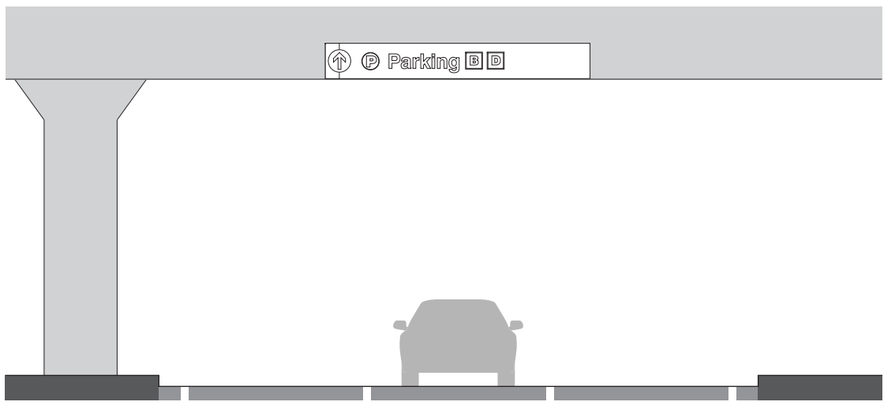
Directional Signs - Vehicular 3.5.1

#	Revision	Date



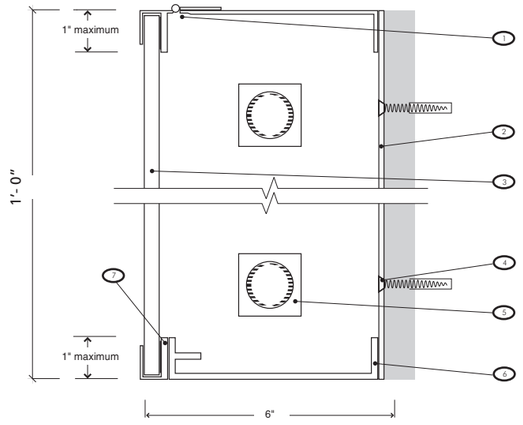
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Overhead - Directional ST - 307

DESCRIPTION: 1 directional - 1 level of messaging.

LOCATION: Parking garages overhead vehicular traffic.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41
- 8 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 6"

MOUNTING: Soffit Mounted.

ILLUMINATION: Sign will be Internally Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

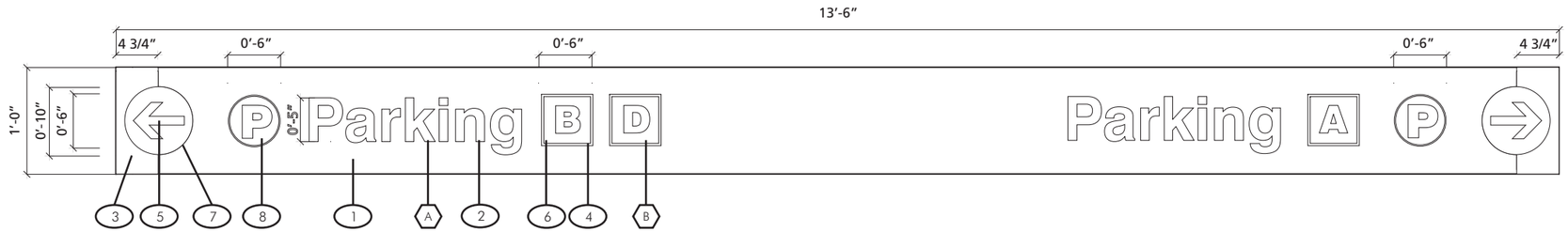
NOTES:

1. Extruded Aluminum box section with continuous length of hinge along top edge. Provide flashing gasket and/or trim as needed to make weather tight case for extreme exterior conditions.
2. Back panel - Aluminum with welded corners ground smooth.
3. 3/8" thick milk White polycarbonate.
4. Fasteners as needed to secure to various exterior wall conditions.
5. Fluorescent lamps T12 3500 K at intervals needed for even illumination across graphic panels.
6. Aluminum channel frame.
7. Magnetic catch at bottom and sides as needed.

Directional Signs - Vehicular 3.5.1

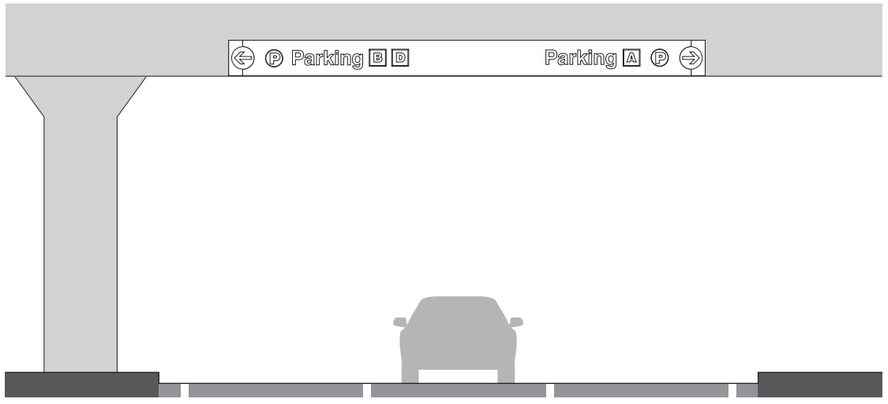
3.0 SIGN TYPES - PARKING

#	Revision	Date



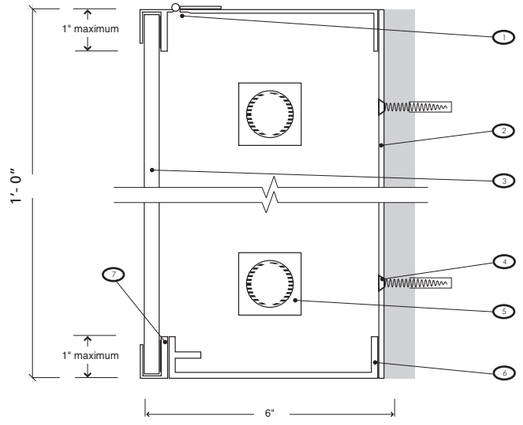
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Overhead - Directional ST - 308

DESCRIPTION: 2 directional - 1 level of messaging.

LOCATION: Parking garages overhead vehicular traffic.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41
- 8 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 6"

MOUNTING: Soffit Mounted.

ILLUMINATION: Sign will be Internally Illuminated.

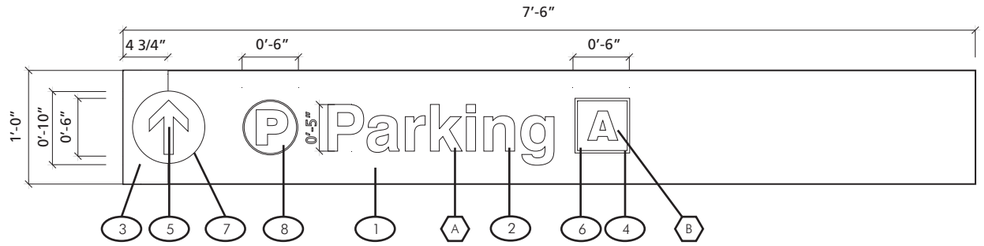
REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Extruded Aluminum box section with continuous length of hinge along top edge. Provide flashing gasket and/or trim as needed to make weather tight case for extreme exterior conditions.
2. Back panel - Aluminum with welded corners ground smooth.
3. 3/8" thick milk White polycarbonate.
4. Fasteners as needed to secure to various exterior wall conditions.
5. Fluorescent lamps T12 3500 K at intervals needed for even illumination across graphic panels.
6. Aluminum channel frame.
7. Magnetic catch at bottom and sides as needed.

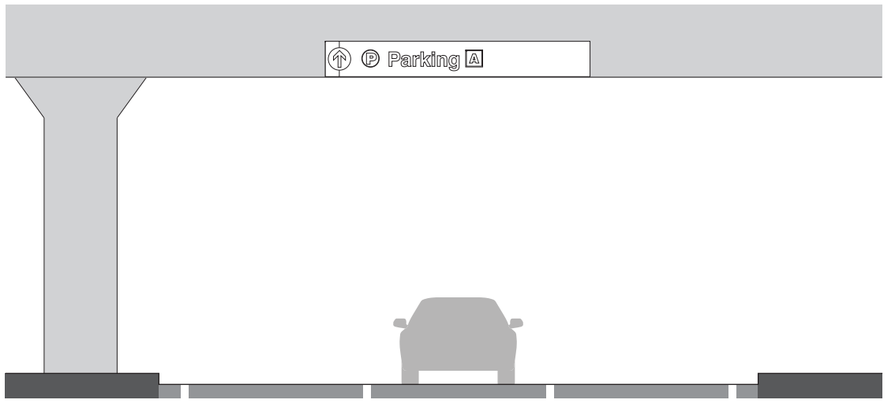
Directional Signs - Vehicular 3.5.1

#	Revision	Date



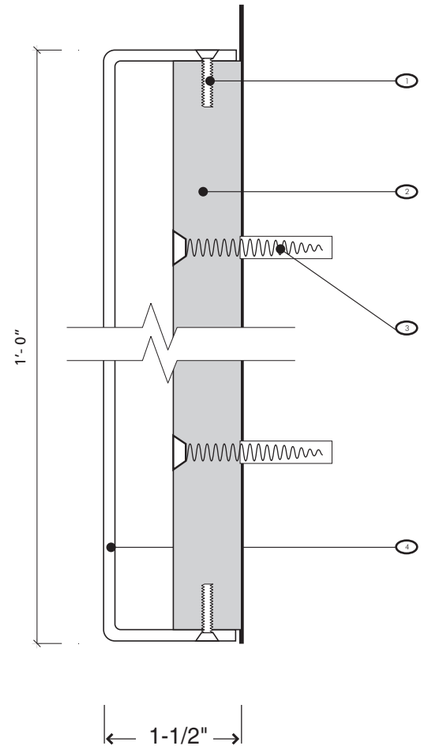
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Overhead - Directional ST - 309

DESCRIPTION: 1 directional - 1 level of messaging.

LOCATION: Parking garages overhead vehicular traffic.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-10 or approved equal (White)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41
8. Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 6"

MOUNTING: Soffit Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

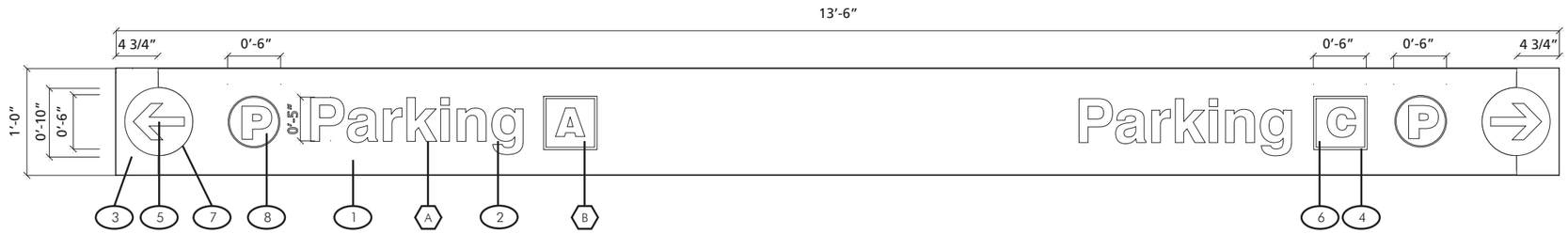
NOTES:

1. Counter sunk tamper-proof screw connection between panel and PVC strips as needed.
2. 3/4" PVC, 3" wide strips
3. Fasteners vary for wall connections. (Verify with Architectural drawings for appropriate types.)
4. 0.090" Aluminum break formed panel.

Directional Signs - Vehicular 3.5.1

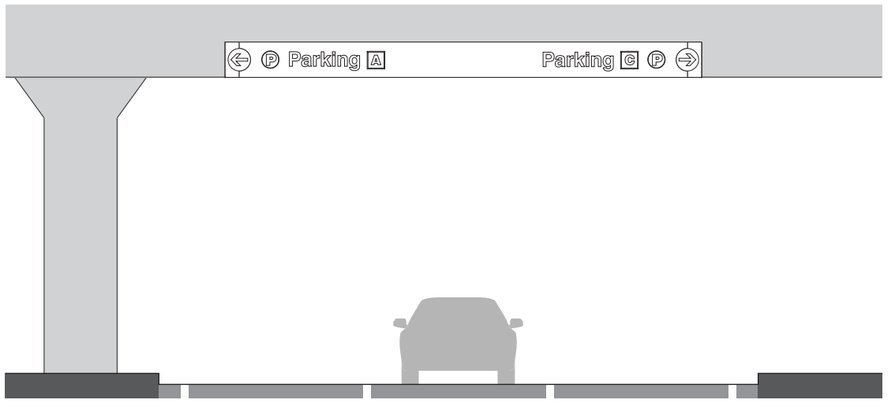
3.0 SIGN TYPES - PARKING

#	Revision	Date



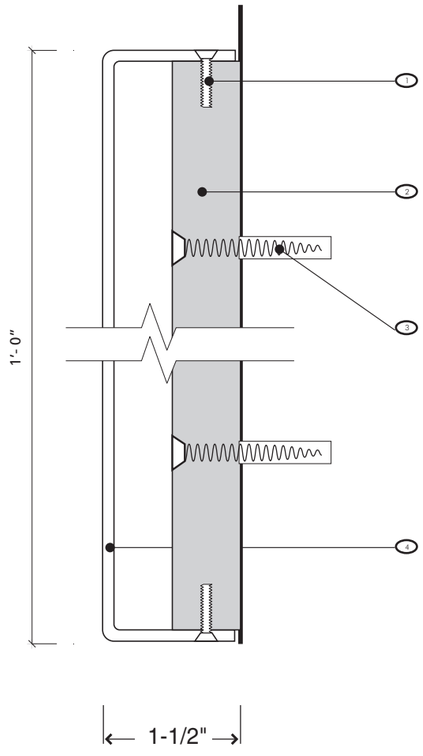
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Overhead - Directional ST - 310

DESCRIPTION: 2 directional - 1 level of messaging.

LOCATION: Parking garages overhead vehicular traffic.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-10 or approved equal (White)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41
8. Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 6"

MOUNTING: Soffit Mounted.

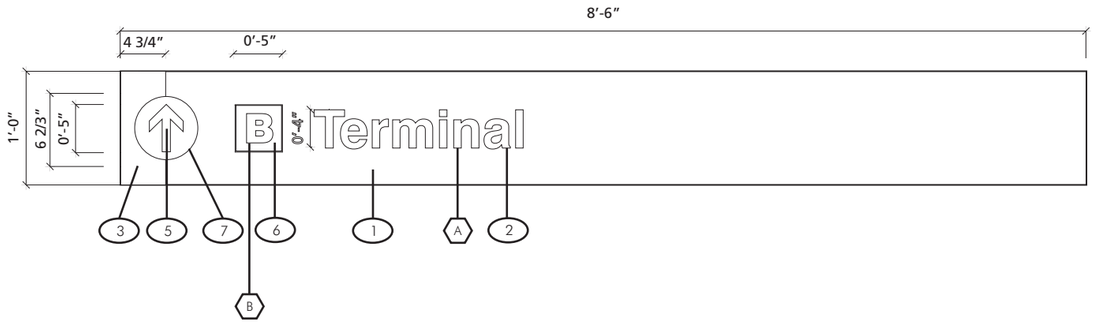
ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

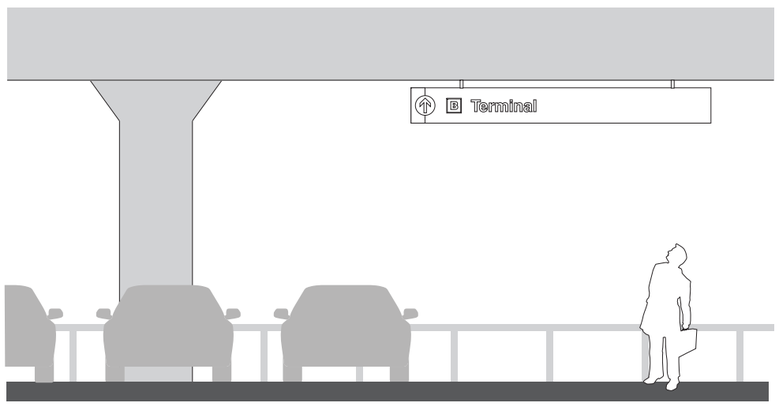
1. Counter sunk tamper-proof screw connection between panel and PVC strips as needed.
2. 3/4" PVC, 3" wide strips
3. Fasteners vary for wall connections. (Verify with Architectural drawings for appropriate types.)
4. 0.090" Aluminum break formed panel.

#	Revision	Date



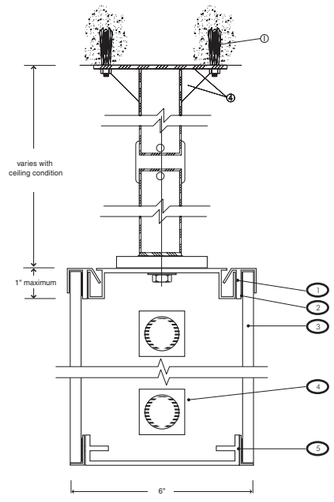
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



Overhead - Directional ST - 321

DESCRIPTION: 1 directional - 1 level of messaging.

LOCATION: Pedestrian Walkways from garage to terminals and elevator lobbies.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41
- 8 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 5"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Internally Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

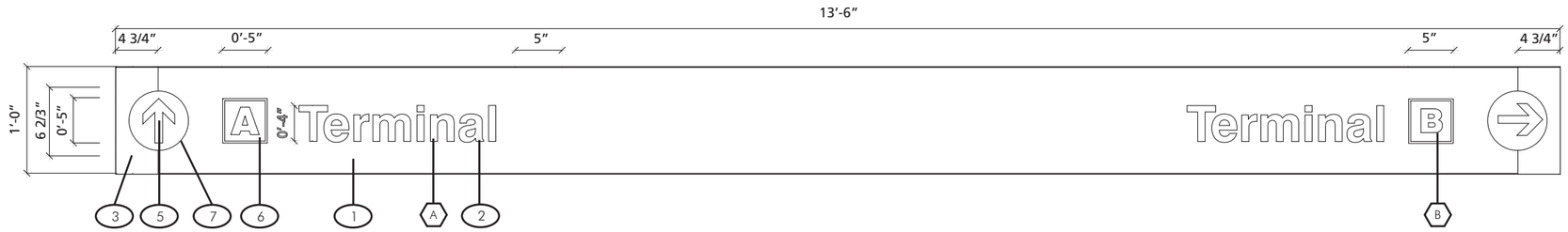
NOTES:

1. Cabinet sides and all exposed edges painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Fluorescent lamps T12 3500K at intervals needed for even illumination across graphics.
5. Magnetic closure at bottom edge to secure

Directional Signs - Pedestrian 3.5.1

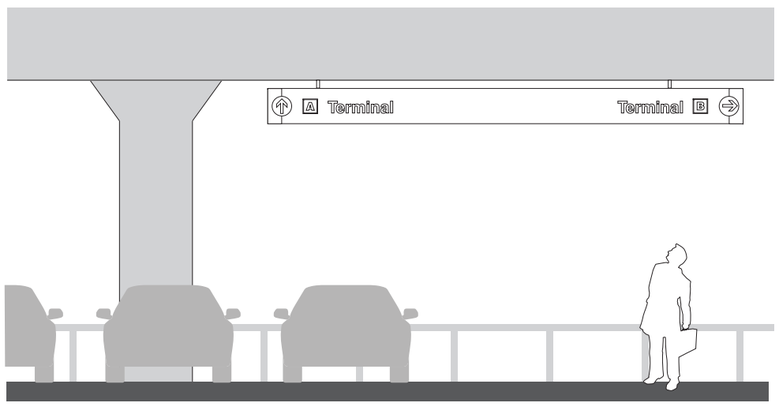
3.0 SIGN TYPES - PARKING

#	Revision	Date



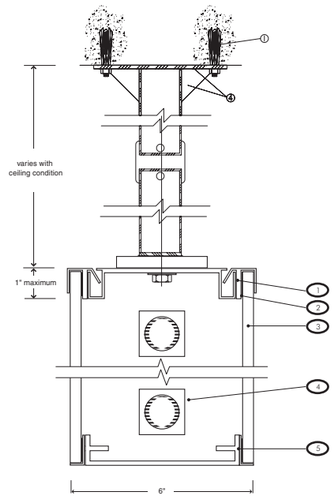
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



Overhead - Directional ST - 322

DESCRIPTION: 2 directional - 1 level of messaging.

LOCATION: Pedestrian Walkways from garage to terminals and elevator lobbies.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41
- 8 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 5"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Internally Illuminated.

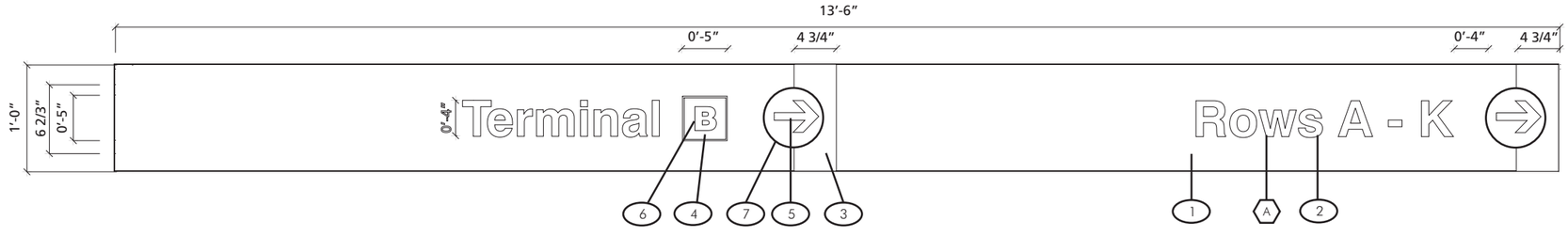
REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Cabinet sides and all exposed edges Painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Fluorescent lamps T12 3500K at intervals needed for even illumination across graphics.
5. Magnetic closure at bottom edge to secure

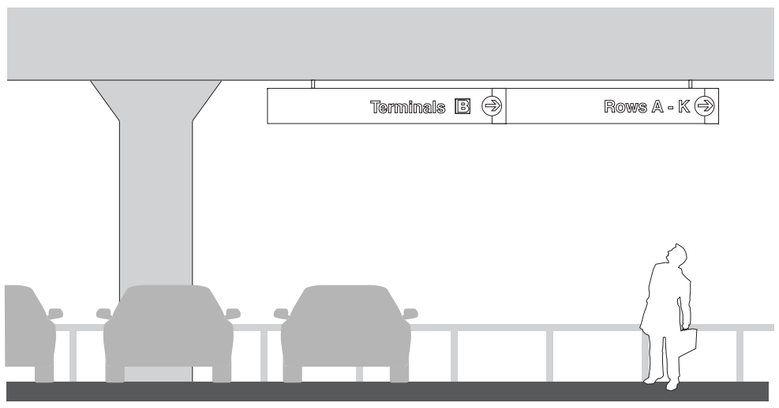
Directional Signs - Pedestrian 3.5.1

#	Revision	Date



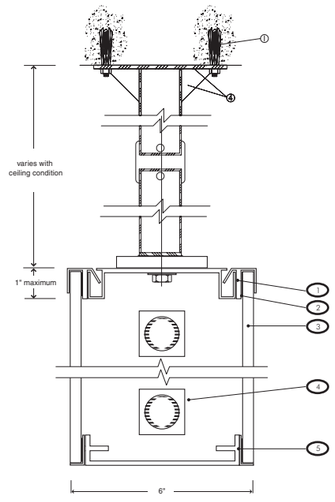
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



Overhead - Directional ST - 323

DESCRIPTION: 1 directional - 2 levels of messaging.

LOCATION: Pedestrian Walkways from garage to terminals and elevator lobbies.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 5"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Internally Illuminated.

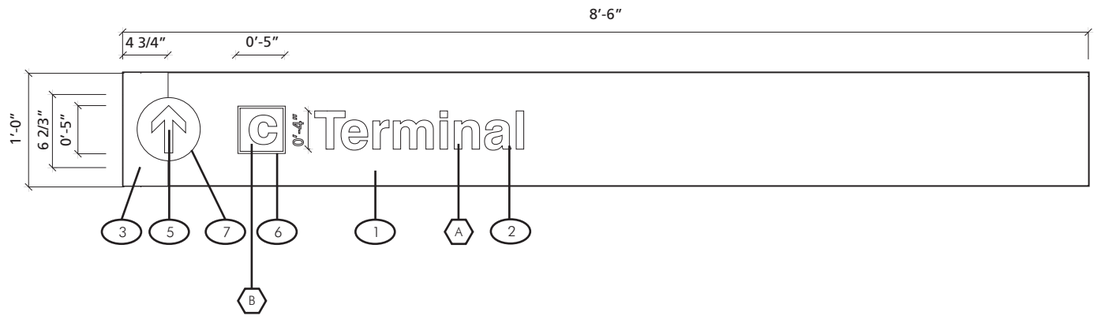
REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Cabinet sides and all exposed edges Painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Fluorescent lamps T12 3500K at intervals needed for even illumination across graphics.
5. Magnetic closure at bottom edge to secure

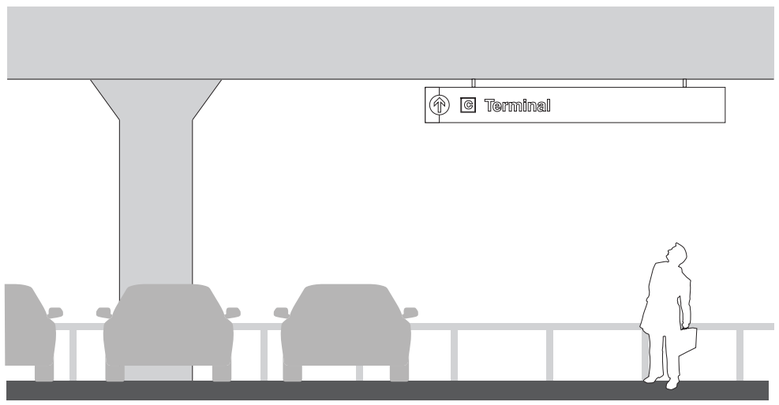
Directional Signs - Pedestrian 3.5.1

#	Revision	Date



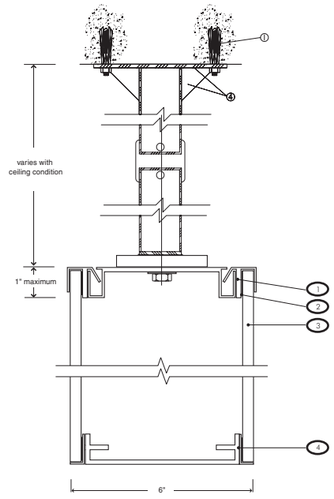
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



Overhead - Directional ST - 324

DESCRIPTION: 1 directional - 1 level of messaging.

LOCATION: Pedestrian Walkways from garage to terminals and elevator lobbies.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-10 or approved equal (White)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 5"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Non Illuminated.

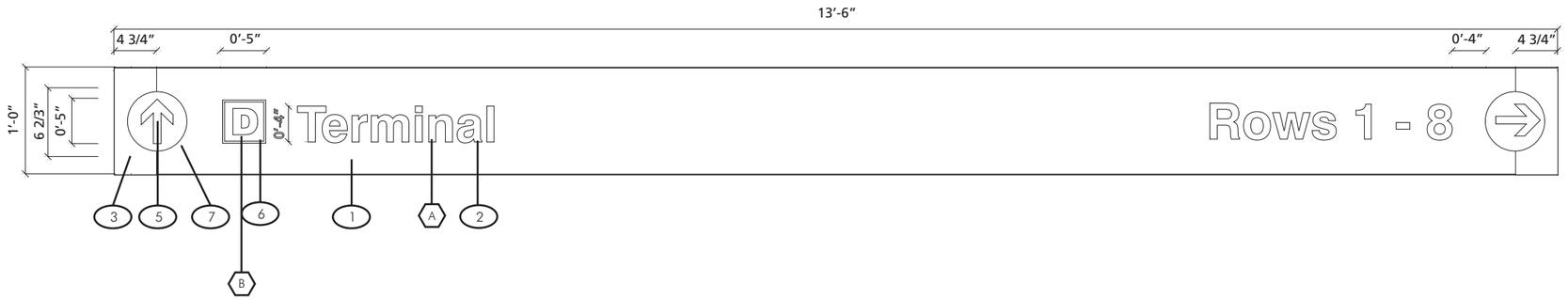
REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Cabinet sides and all exposed edges painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Magnetic closure at bottom edge to secure

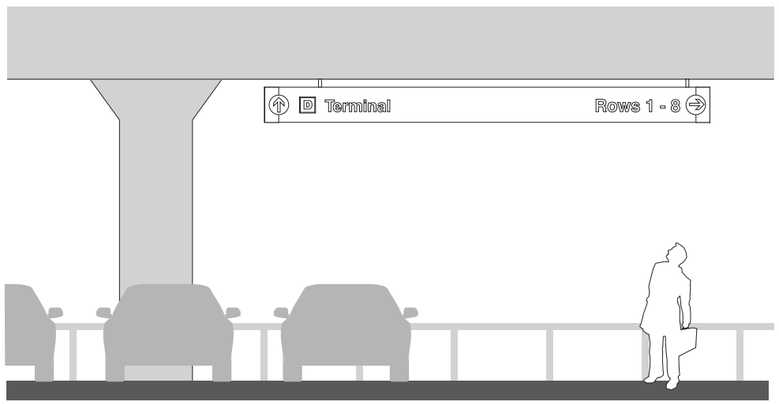
Directional Signs - Pedestrian 3.5.1

#	Revision	Date



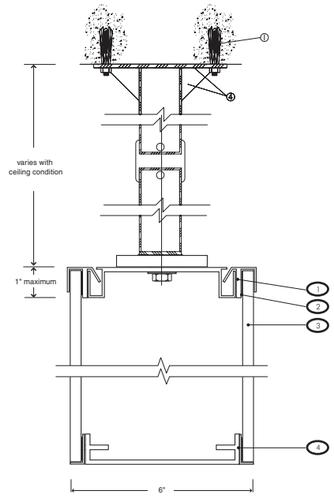
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



Overhead - Directional ST - 325

DESCRIPTION: 2 directional - 1 level of messaging.

LOCATION: Pedestrian Walkways from garage to terminals and elevator lobbies.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-10 or approved equal (White)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 5"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Non Illuminated.

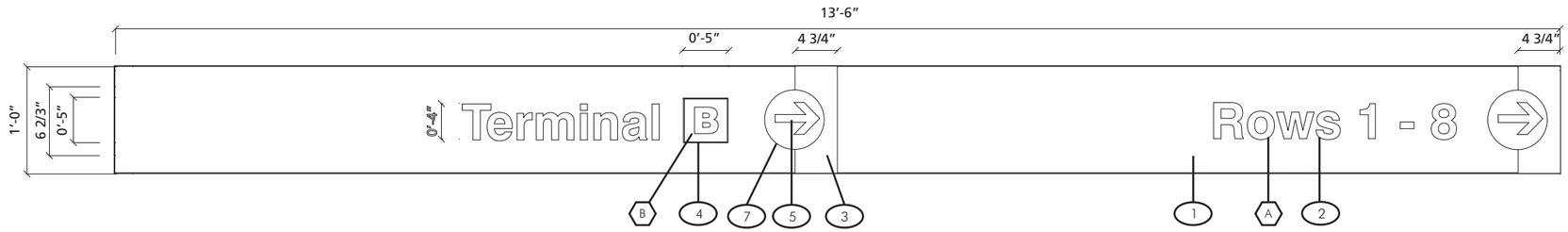
REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Cabinet sides and all exposed edges painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Magnetic closure at bottom edge to secure

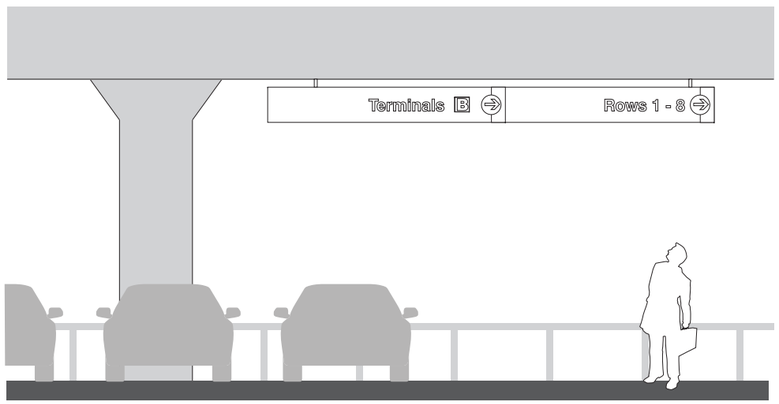
Directional Signs - Pedestrian 3.5.1

#	Revision	Date



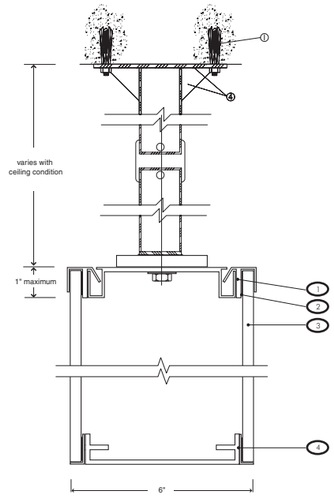
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



Overhead - Directional ST - 326

DESCRIPTION: 1 directional - 2 levels of messaging.

LOCATION: Pedestrian Walkways from garage to terminals and elevator lobbies.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-10 or approved equal (White)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 5"

MOUNTING: Ceiling Suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

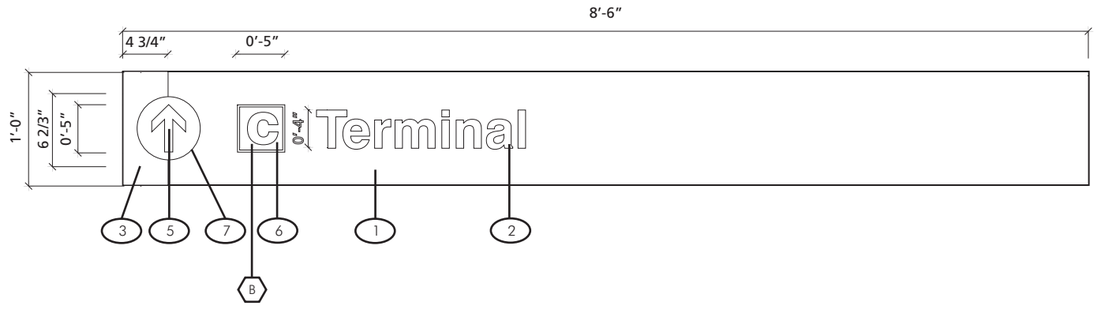
NOTES:

1. Cabinet sides and all exposed edges painted black.
2. Aluminum channel frame
3. 3/8" thick milk White polycarbonate. Paint surface of graphics panel solid Black with text and symbols White or colors as noted in layouts.
4. Magnetic closure at bottom edge to secure

Directional Signs - Pedestrian 3.5.1

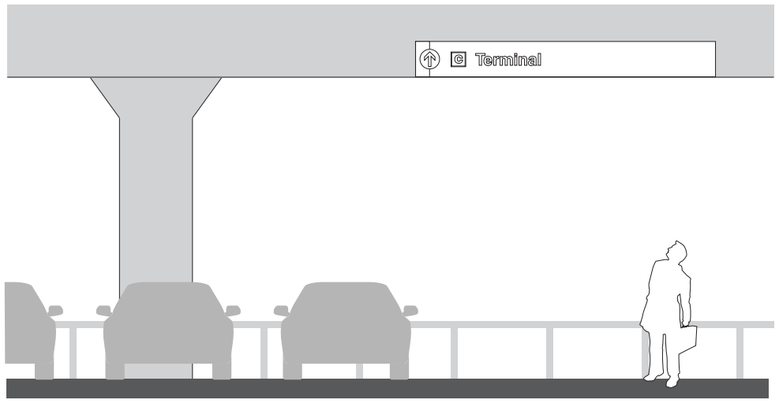
3.0 SIGN TYPES - PARKING

#	Revision	Date



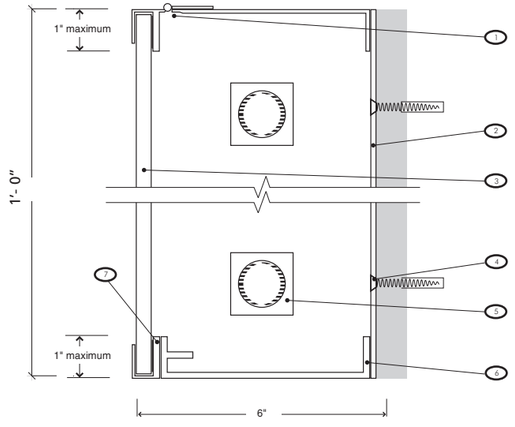
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Overhead - Directional ST - 327

DESCRIPTION: 1 directional - 1 level of messaging.

LOCATION: Pedestrian Walkways from garage to terminals and elevator lobbies.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 5"

MOUNTING: Soffit Mounted.

ILLUMINATION: Sign will be Internally Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

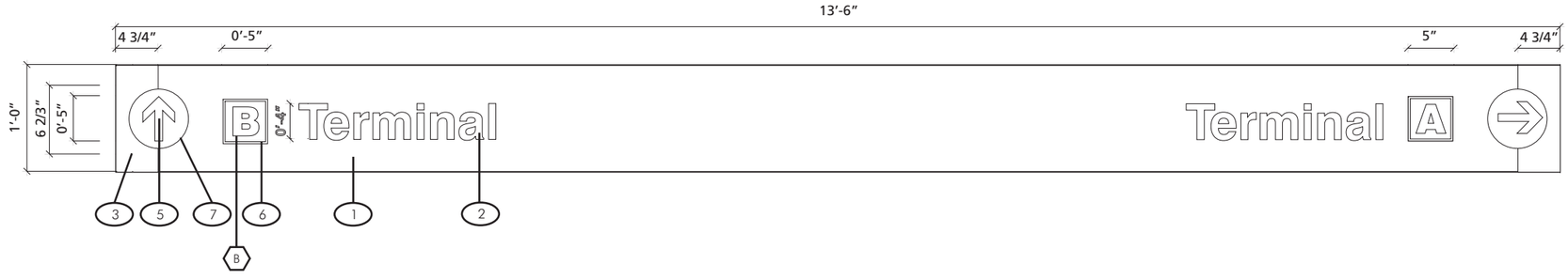
NOTES:

1. Extruded Aluminum box section with continuous length of hinge along top edge. Provide flashing gasket and/or trim as needed to make weather tight case for extreme exterior conditions.
2. Back panel - Aluminum with welded corners ground smooth.
3. 3/8" thick milk White polycarbonate.
4. Fasteners as needed to secure to various exterior wall conditions.
5. Fluorescent lamps T12 3500 K at intervals needed for even illumination across graphic panels.
6. Aluminum channel frame.
7. Magnetic catch at bottom and sides as needed.

Directional Signs - Pedestrian 3.5.1

3.0 SIGN TYPES - PARKING

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/4"=1'-0"

Overhead - Directional ST - 328

DESCRIPTION: 2 directional - 1 level of messaging.

LOCATION: Pedestrian Walkways from garage to terminals and elevator lobbies.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41

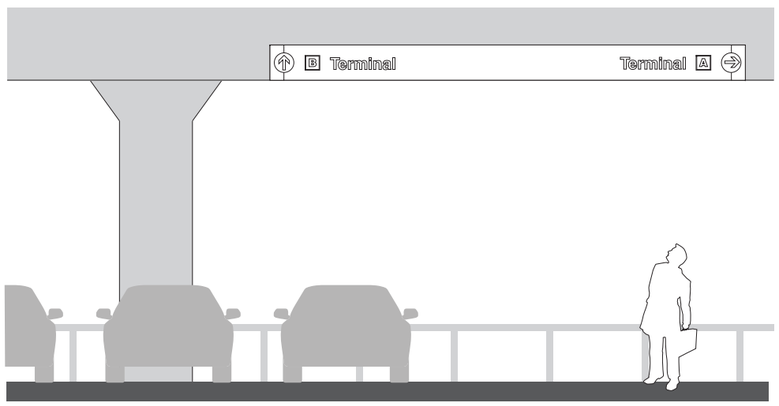
GRAPHICS: N/A

ARROWS: 5"

MOUNTING: Soffit Mounted.

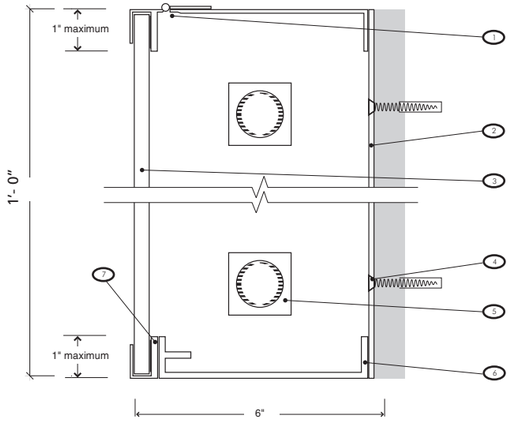
ILLUMINATION: Sign will be Internally Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

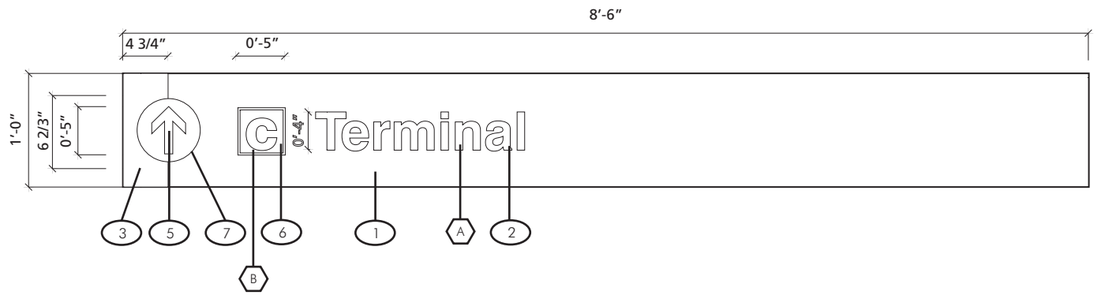
NOTES:

1. Extruded Aluminum box section with continuous length of hinge along top edge. Provide flashing gasket and/or trim as needed to make weather tight case for extreme exterior conditions.
2. Back panel - Aluminum with welded corners ground smooth.
3. 3/8" thick milk White polycarbonate.
4. Fasteners as needed to secure to various exterior wall conditions.
5. Fluorescent lamps T12 3500 K at intervals needed for even illumination across graphic panels.
6. Aluminum channel frame.
7. Magnetic catch at bottom and sides as needed.

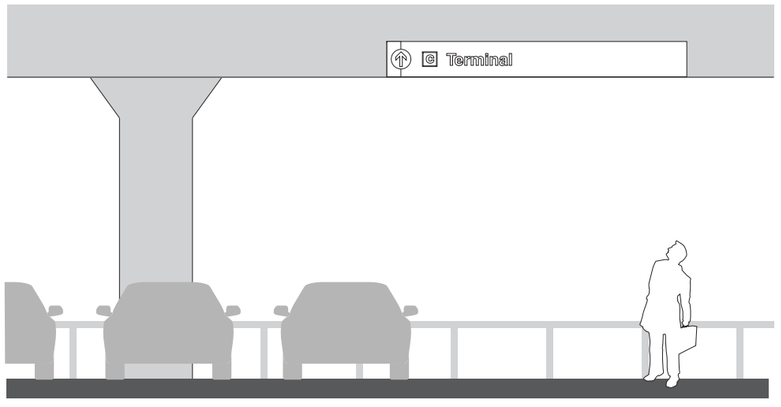
Directional Signs - Pedestrian 3.5.1

3.0 SIGN TYPES - PARKING

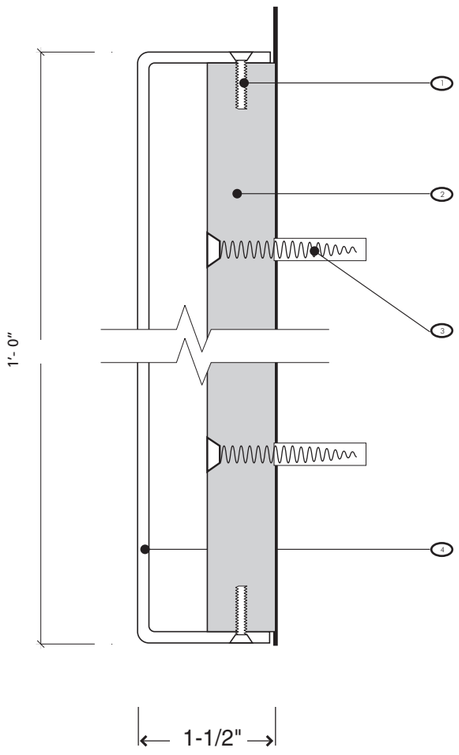
#	Revision	Date



SIGN FACE LAYOUT
Scale: 3/4"=1'-0"



ELEVATION
Scale: N.T.S.



DETAIL
Scale: N.T.S.

Overhead - Directional ST - 329

DESCRIPTION: 1 directional - 1 level of messaging.

LOCATION: Pedestrian Walkways from garage to terminals and elevator lobbies.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-10 or approved equal (White)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 5"

MOUNTING: Soffit Mounted.

ILLUMINATION: Sign will be Non Illuminated.

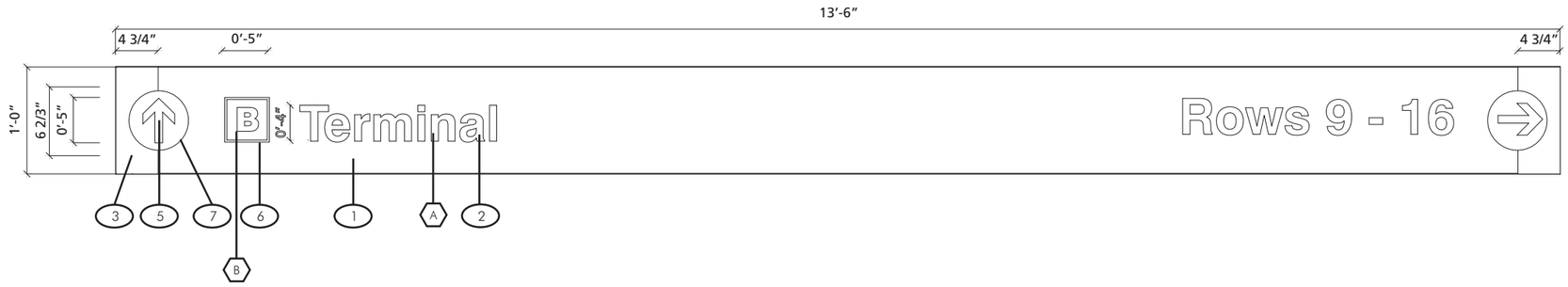
REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

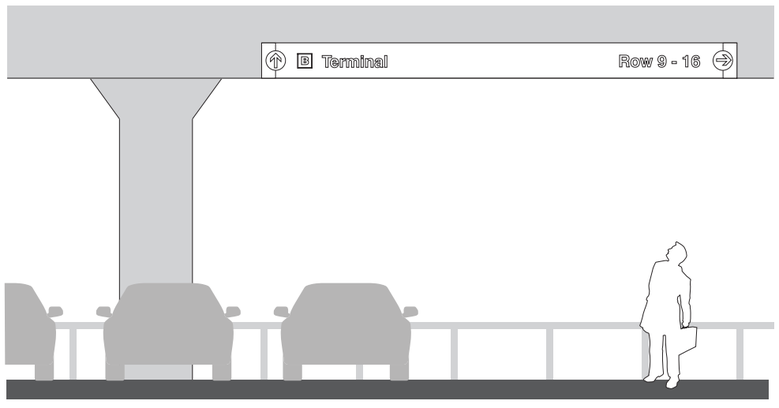
1. Counter sunk tamper-proof screw connection between panel and PVC strips as needed.
2. 3/4" PVC, 3" wide strips
3. Fasteners vary for wall connections. (Verify with Architectural drawings for appropriate types.)
4. 0.090" Aluminum break formed panel.

Directional Signs - Pedestrian 3.5.1

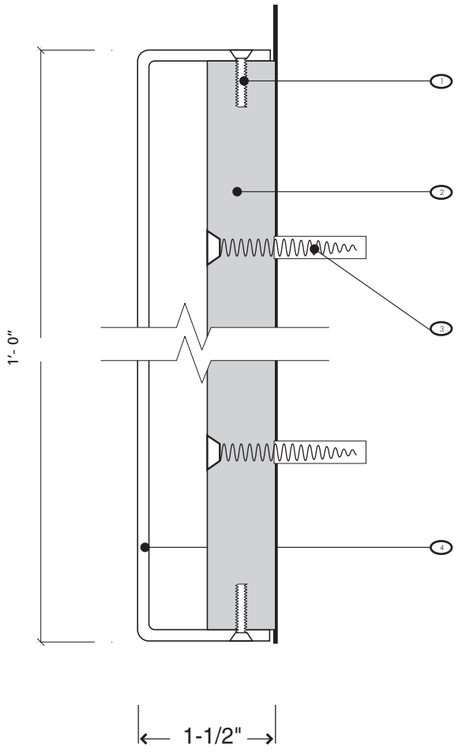
#	Revision	Date



SIGN FACE LAYOUT
Scale: 3/4"=1'-0"



ELEVATION
Scale: N.T.S.



DETAIL
Scale: N.T.S.

Overhead - Directional ST - 330

DESCRIPTION: 2 directional - 1 level of messaging.

LOCATION: Pedestrian Walkways from garage to terminals and elevator lobbies.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: 5"

MOUNTING: Soffit Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Counter sunk tamper-proof screw connection between panel and PVC strips as needed.
2. 3/4" PVC, 3" wide strips
3. Fasteners vary for wall connections. (Verify with Architectural drawings for appropriate types.)
4. 0.090" Aluminum break formed panel.

#	Revision	Date

Graphics to be provided by Massport

- *Note: Use sign types L1 and L2 from the Central Parking Garage and Expansion MPA Project # L219-C3 date March 31, 2004.*

Wall Mount - Identification ST - 351

DESCRIPTION: Aisle ID Panels

LOCATION: Used on column panels on levels 1-6

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
A N/A
B N/A

SYMBOLOGY: N/A
COLORS: N/A

GRAPHICS: Graphics to be provided by Massport.

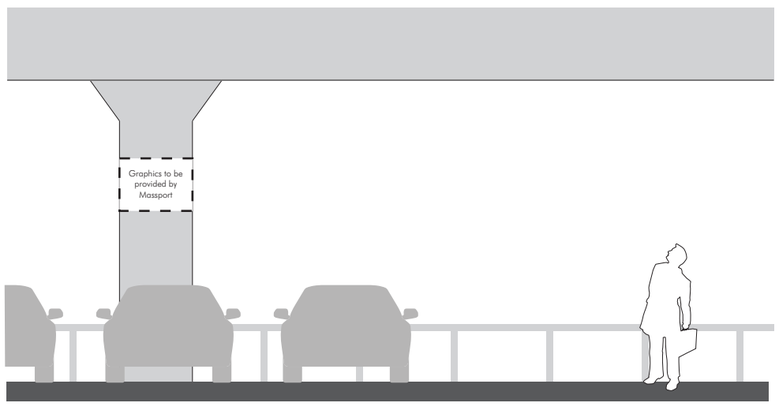
ARROWS: N/A

MOUNTING: Wall Mounted.

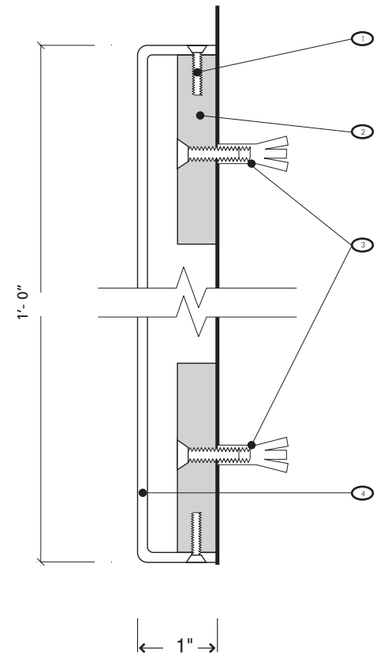
ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

SIGN FACE LAYOUT
Scale: NTS



ELEVATION
Scale: N.T.S.



DETAIL
Scale: N.T.S.

NOTES:

1. Counter sunk tamper-proof screw connection between panel and PVC strips as needed.
2. ½" PVC mounting block mounted to wall or with brackets to light poles
3. Fasteners vary for surface wall connections.
4. Porcelain Enamel bonded by fusion to Stainless Steel.

#	Revision	Date

Graphics to be provided by Massport

- *Note: Use sign type L3 from the Central Parking Garage and Expansion MPA Project # L219-C3 date March 31, 2004.*

Post Mount - Identification ST - 352

DESCRIPTION: Aisle ID Panels

LOCATION: Used on column panels on roof level.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
A N/A
B N/A

SYMBOLOGY: N/A

COLORS: N/A

GRAPHICS: Graphics to be provided by Massport.

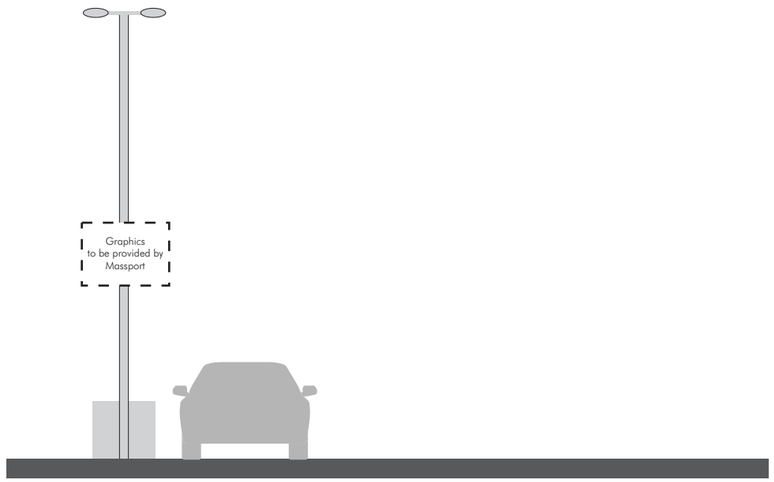
ARROWS: N/A

MOUNTING: Post Mounted.

ILLUMINATION: Sign will be Non Illuminated.

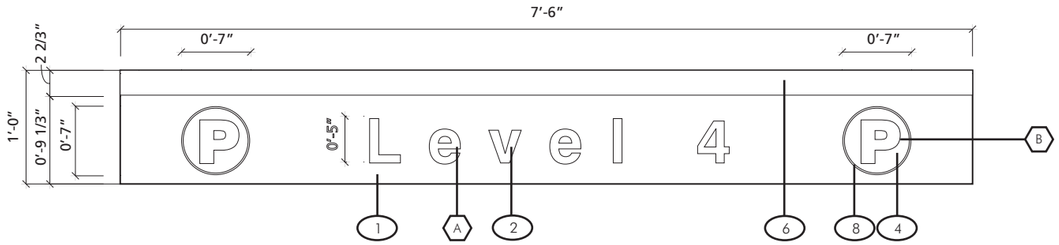
REMARKS: Refer to Section 2.5 for vinyl specifications

SIGN FACE LAYOUT
Scale: NTS



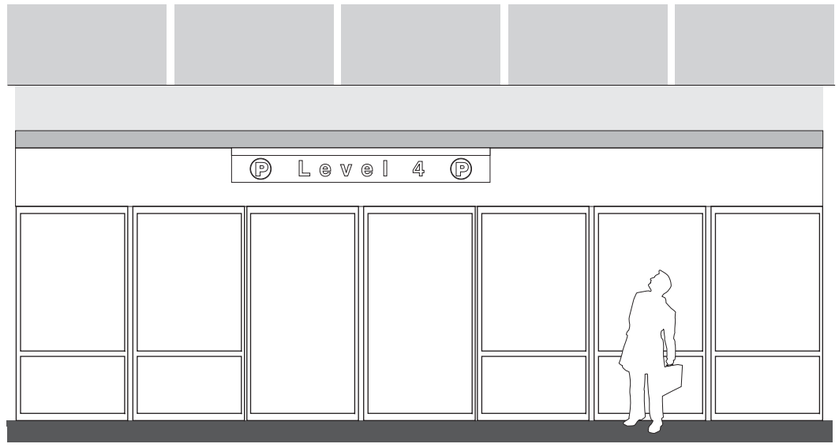
ELEVATION
Scale: N.T.S.

#	Revision	Date



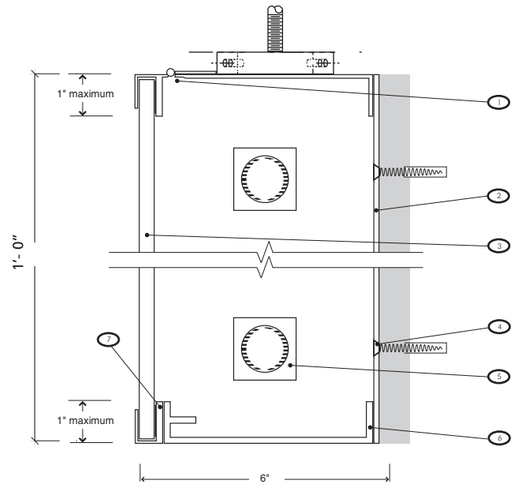
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Overhead - Identification ST - 355

DESCRIPTION: Level ID

LOCATION: Used overhead and above doorways to denote level identification.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41
- 8 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Ceiling Mounted.

ILLUMINATION: Sign will be Internally Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

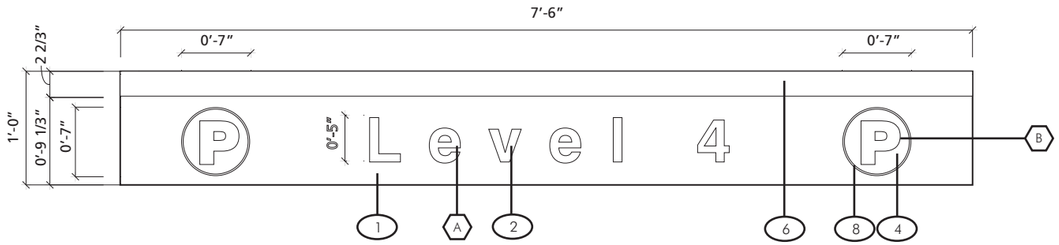
NOTES:

1. Extruded Aluminum box section with continuous length of hinge along top edge. Provide flashing gasket and/or trim as needed to make weather tight case for extreme exterior conditions.
2. Back panel - Aluminum with welded corners ground smooth.
3. 3/8" thick milk White polycarbonate.
4. Fasteners as needed to secure to various exterior wall conditions.
5. Fluorescent lamps T12 3500 K at intervals needed for even illumination across graphic panels.
6. Aluminum channel frame.
7. Magnetic catch at bottom and sides as needed.

Identification Signs - Pedestrian 3.5.1

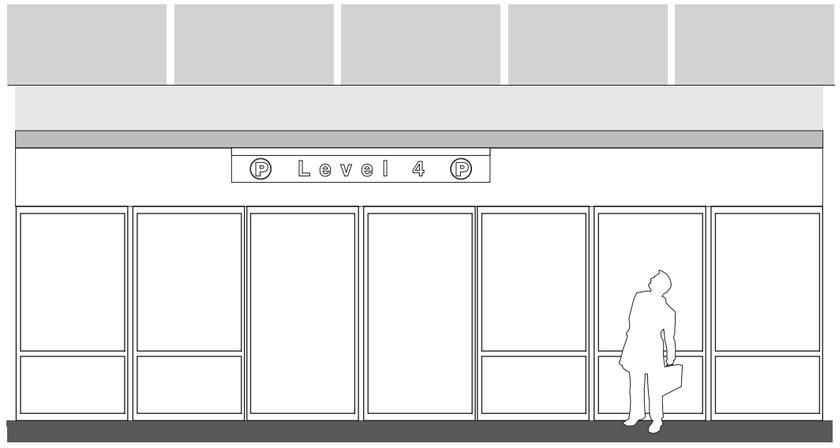
3.0 SIGN TYPES - PARKING

#	Revision	Date



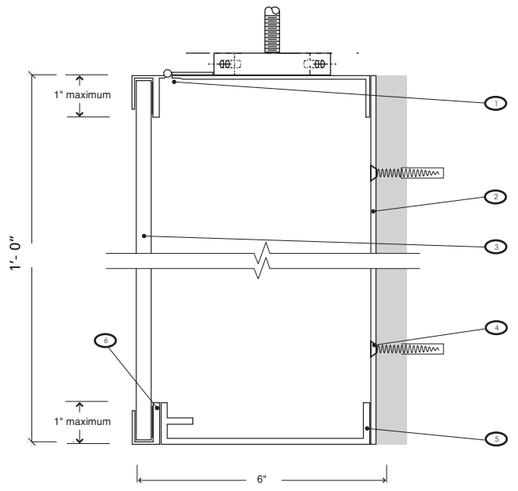
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Overhead - Identification ST - 356

DESCRIPTION: Level ID

LOCATION: Used overhead and above doorways to denote level identification.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: 3M Opaque Film #220-10 or approved equal(White)
- 3 Band: 3M Opaque Film #220-10 or approved equal (White)
- 4 Symbol: 3M Opaque Film #220-10 or approved equal (White)
- 5 Arrow: 3M Opaque Film #220-10 or approved equal (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41
- 8 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Ceiling Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

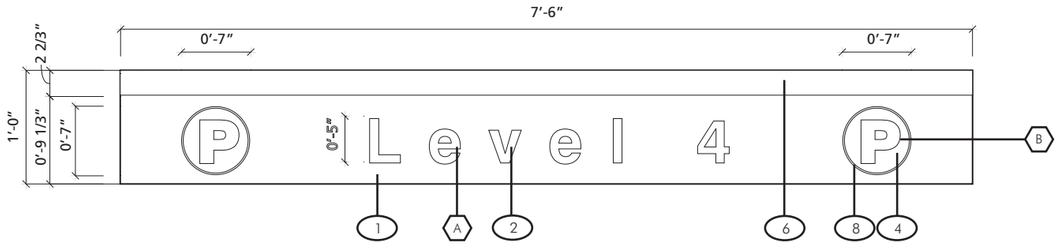
NOTES:

1. Extruded Aluminum box section with continuous length of hinge along top edge. Provide flashing gasket and/or trim as needed to make weather tight case for extreme exterior conditions.
2. Back panel - Aluminum with welded corners ground smooth.
3. 3/8" thick milk White polycarbonate.
4. Fasteners as needed to secure to various exterior wall conditions.
5. Aluminum channel frame.
6. Magnetic catch at bottom and sides as needed.

Identification Signs - Pedestrian 3.5.1

3.0 SIGN TYPES - PARKING

#	Revision	Date



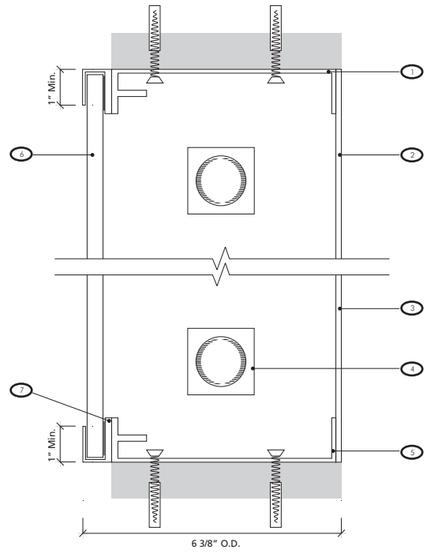
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Overhead - Identification ST - 360

DESCRIPTION: Level ID

LOCATION: Used overhead and above doorways to denote level identification.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Condensed BT Bold

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)

- 7 Arrow circle:3M Opaque Film (dark Gray) #7725-41
- 8 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Soffit Mounted.

ILLUMINATION: Sign will be Internally Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

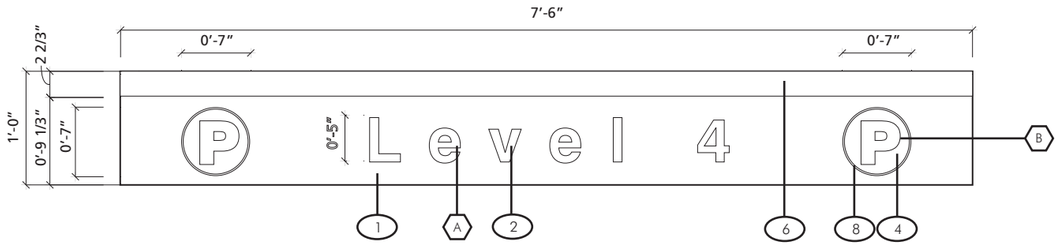
NOTES:

1. Extruded Aluminum box section with continuous length of hinge along top edge. Provide flashing gasket and/or trim as needed to make weather tight case for extreme exterior conditions.
2. Back panel - Aluminum with welded corners ground smooth.
3. 3/8" thick milk White polycarbonate.
4. Fasteners as needed to secure to various exterior wall conditions.
5. Fluorescent lamps T12 3500 K at intervals needed for even illumination across graphic panels.
6. Aluminum channel frame.
7. Magnetic catch at bottom and sides as needed.

Identification Signs - Pedestrian 3.5.1

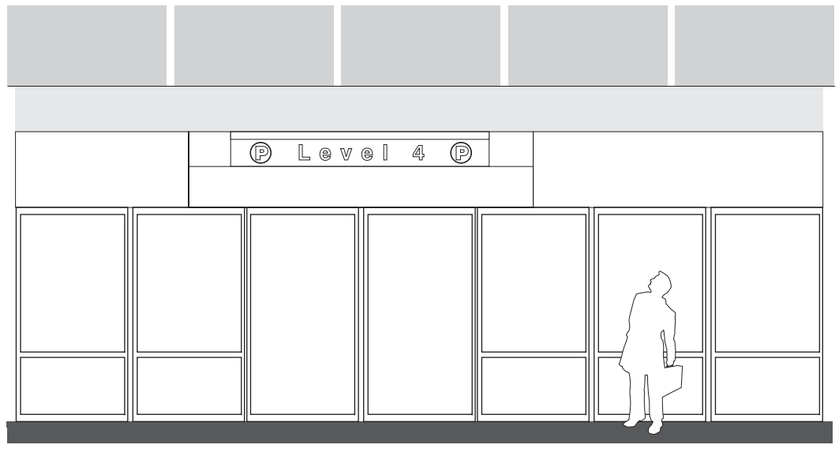
3.0 SIGN TYPES - PARKING

#	Revision	Date



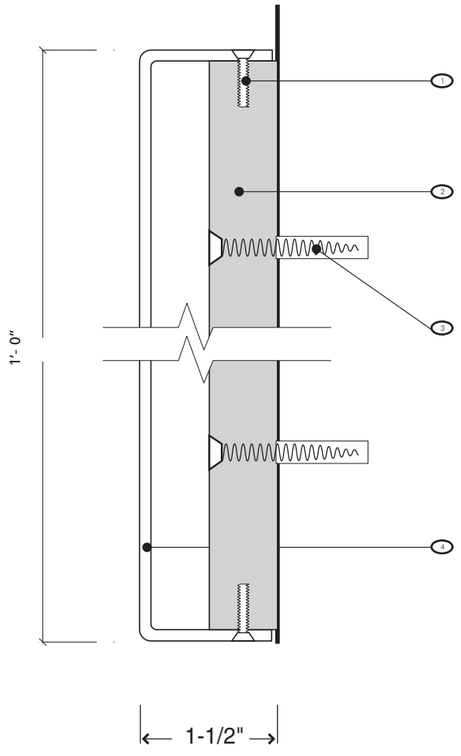
SIGN FACE LAYOUT

Scale: 1/6"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Overhead - Identification ST - 361

DESCRIPTION: Level ID

LOCATION: Used overhead and above doorways to denote level identification.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-10 or approved equal (White)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41
8. Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Soffit Mounted.

ILLUMINATION: Sign will be Non Illuminated.

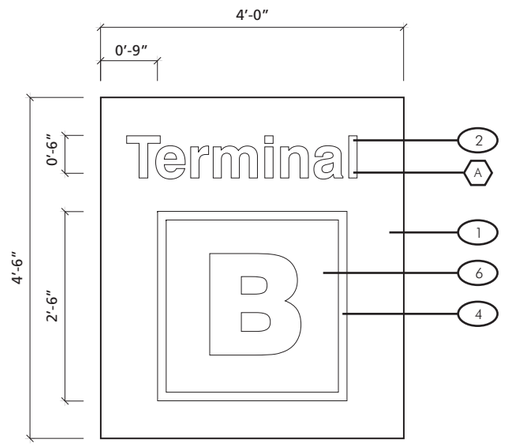
REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Counter sunk tamper-proof screw connection between panel and PVC strips as needed.
2. 3/4" PVC, 3" wide strips
3. Fasteners vary for wall connections. (Verify with Architectural drawings for appropriate types.)
4. 0.090" Aluminum break formed panel.

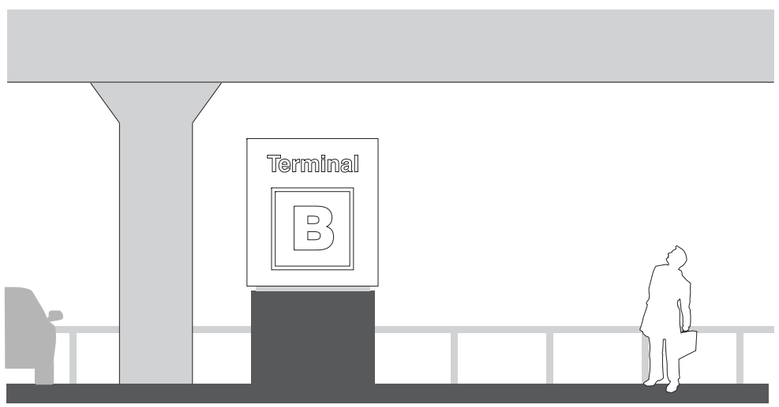
Identification Signs - Pedestrian 3.5.1

#	Revision	Date



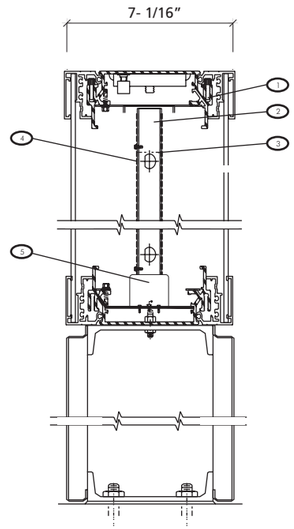
SIGN FACE LAYOUT

Scale: NTS



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S.

Floor Mount - Identification ST - 365

DESCRIPTION: Terminal Icon

LOCATION: Parking garages on levels G to 6.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A N/A
- B N/A

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D band:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Floor Mounted.

ILLUMINATION: Sign will be Internally Illuminated.

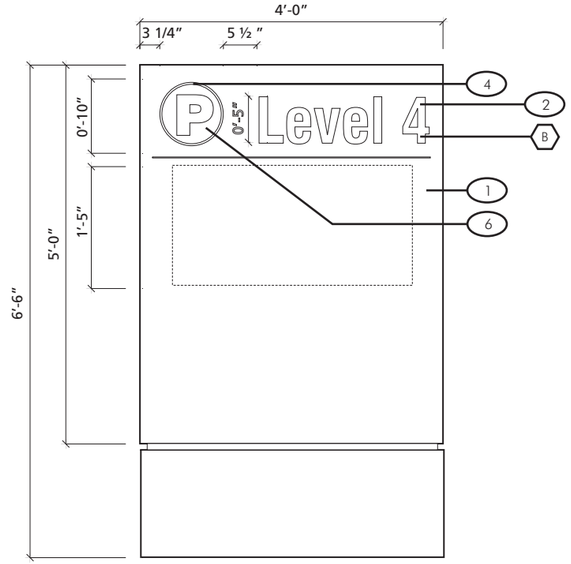
REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. .040" alum formed raceway cover, socket support. Panduit ABM25-A-C cable tie pad in raceway with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
5. Ballast France 688 DR

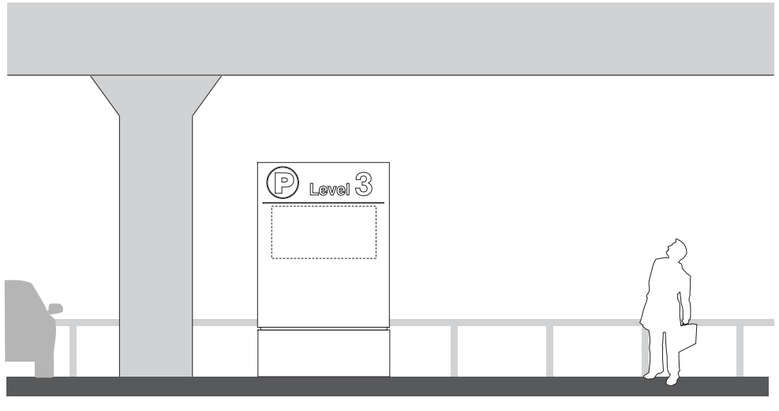
Identification Signs - Pedestrian 3.5.1

#	Revision	Date



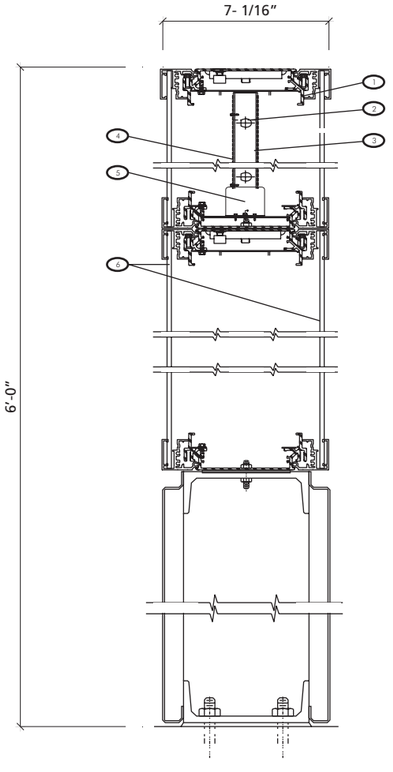
SIGN FACE LAYOUT

Scale: 1/6"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S.

Floor Mount - Identification ST - 366

DESCRIPTION: Floor Level ID Pylon

LOCATION: Pedestrian Islands from level G to 6

MATERIALS: Fabricated stainless steel removable panels with vinyl graphics on a stainless steel base.

LETTERING:

- A Swiss 721 Condensed BT Bold
- B N/A

SYMBOLOGY: Refer to Section 2.2.2

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-10 or approved equal (White)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D band:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Floor Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

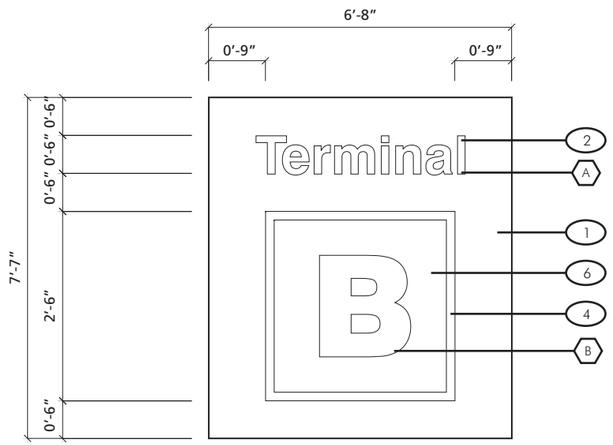
NOTES:

1. # 10-24 X ½"SS SCS hinge screw drill by 5/16" Dia. Use reference scoring 8" from ends typical
2. D-Punch for fluor sockets
3. 2" X 2" X 1/8" alum channel raceway, socket support welded to base plate mtd. To frame w/ #8 X ½" SS TEK DP SMS
4. .040" alum formed raceway cover, socket support. Panduit ABM25-A-C cable tie pad in raceway
   with panduit PLIM-C ZIP TIE 1/8" WIDE x 7/8"
5. Ballast France 688 DR
6. 3/16" signwhite polycarb faces mounted with 3M 4930 VHB FT

Identification Signs - Pedestrian 3.5.1

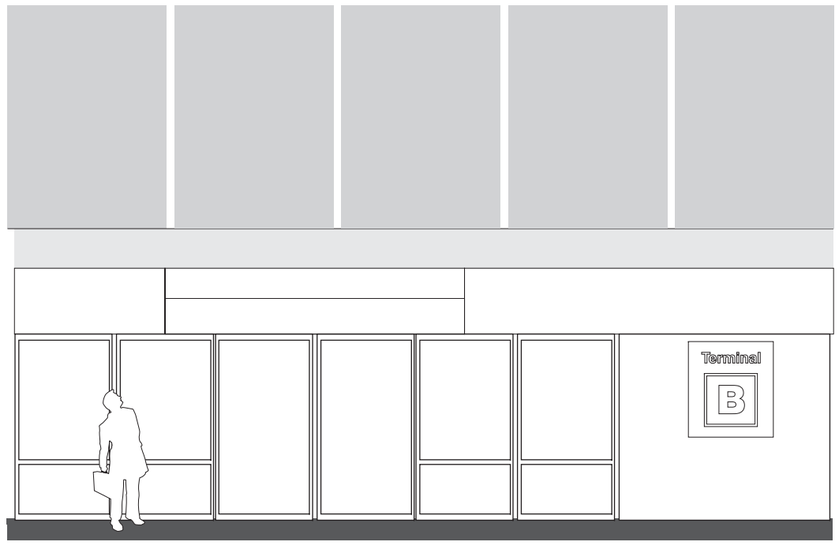
3.0 SIGN TYPES - PARKING

#	Revision	Date



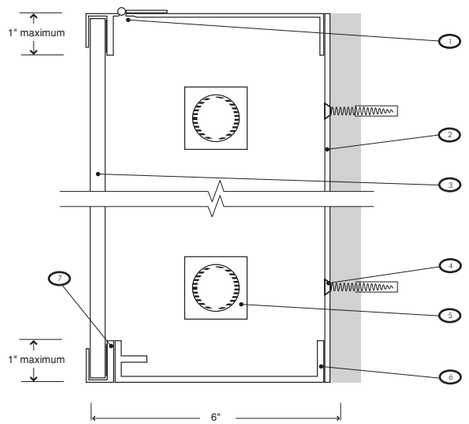
SIGN FACE LAYOUT

Scale: NTS



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Wall Mount - Identification ST - 370

DESCRIPTION: Terminal Icon

LOCATION: On facade above roof canopy on level 7.

MATERIALS: Aluminum sign face structure with removable face panel.

LETTERING:
- A Swiss721 BT
- B Swiss721 Blk BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: Translucent Acrylic (White)
- 3 Band: Translucent Acrylic (White)
- 4 Symbol: Translucent Acrylic (White)
- 5 Arrow: Translucent Acrylic (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: Sign will be Internally Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Extruded Aluminum box section with continuous length of hinge along top edge. Provide flashing gasket and/or trim as needed to make weather tight case for extreme exterior conditions.
2. Back panel - Aluminum with welded corners ground smooth.
3. 3/8" thick milk White polycarbonate.
4. Fasteners as needed to secure to various exterior wall conditions.
5. Fluorescent lamps T12 3500 K at intervals needed for even illumination across graphic panels.
6. Aluminum channel frame.
7. Magnetic catch at bottom and sides as needed.

Identification Signs - Pedestrian 3.5.1

3.0 SIGN TYPES - PARKING

#	Revision	Date

Graphics to be provided by Massport

- *Note: Use sign type H1 from the Central Parking Garage and Expansion MPA Project # L219-C3 date March 31, 2004.*

Wall Mount - Identification ST - 371

DESCRIPTION: Lobby Floor ID Panels

LOCATION: Used at Terminal Lobbies.

MATERIALS: N/A

LETTERING:
A N/A
B N/A

SYMBOLOGY: N/A

COLORS: N/A

GRAPHICS: Graphics to be provided by Massport.

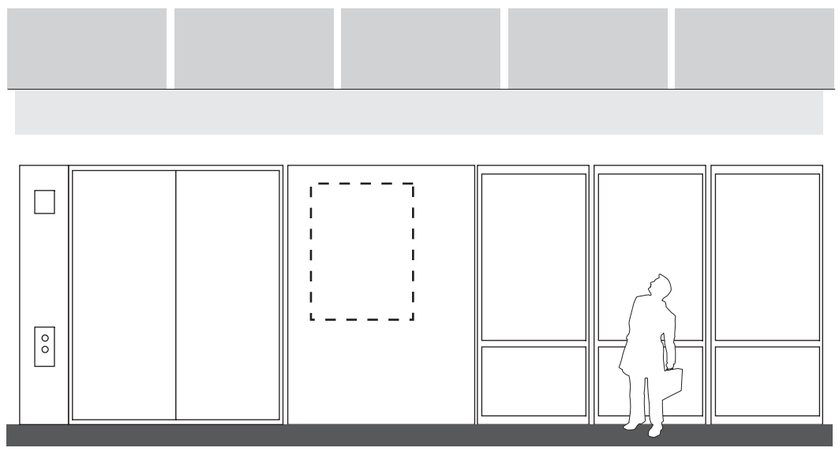
ARROWS: N/A

MOUNTING: Wall Mounted.

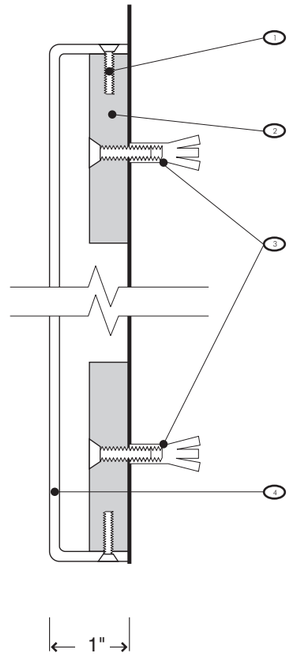
ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

SIGN FACE LAYOUT
Scale: NTS



ELEVATION
Scale: N.T.S.



DETAIL
Scale: N.T.S.

NOTES:

1. Counter sunk tamper-proof screw connection between panel and PVC strips as needed.
2. ½" PVC mounting block mounted to wall or with brackets to light poles
3. Fasteners vary for surface wall connections.
4. Porcelain Enamel bonded by fusion to Stainless Steel.

Identification Signs - Pedestrian 3.5.1
3.0 SIGN TYPES - PARKING

#	Revision	Date

Graphics to be provided by Massport

- *Note: Use sign type H2 from the Central Parking Garage and Expansion MPA Project # L219-C3 date March 31, 2004.*

Wall Mount - Identification ST - 372

DESCRIPTION: Lobby Floor ID Panels

LOCATION: Used at Stair Cores.

MATERIALS: N/A

LETTERING:
- A N/A
- B N/A

SYMBOLOGY: N/A

COLORS: N/A

GRAPHICS: Graphics to be provided Massport.

ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

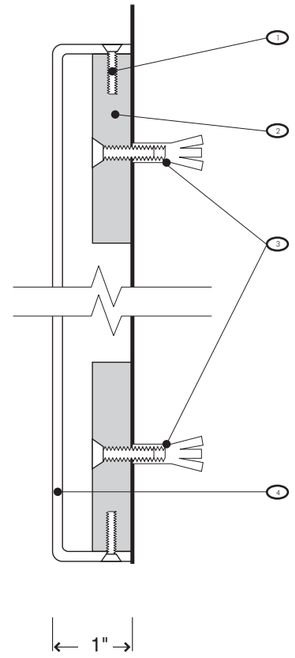
SIGN FACE LAYOUT

Scale: NTS



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

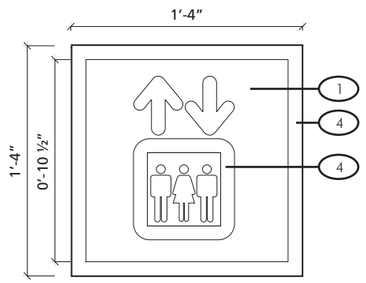
NOTES:

1. Counter sunk tamper-proof screw connection between panel and PVC strips as needed.
2. ½" PVC mounting block mounted to wall or with brackets to light poles
3. Fasteners vary for surface wall connections.
4. Porcelain Enamel bonded by fusion to Stainless Steel.

Identification Signs - Pedestrian 3.5.1

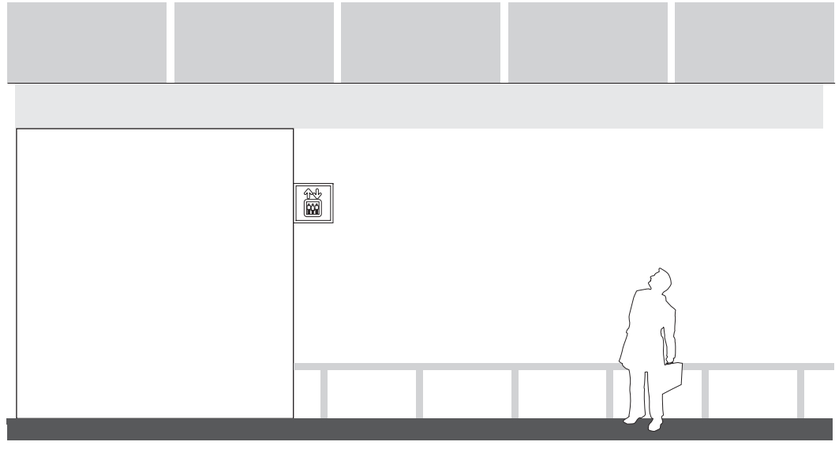
3.0 SIGN TYPES - PARKING

#	Revision	Date



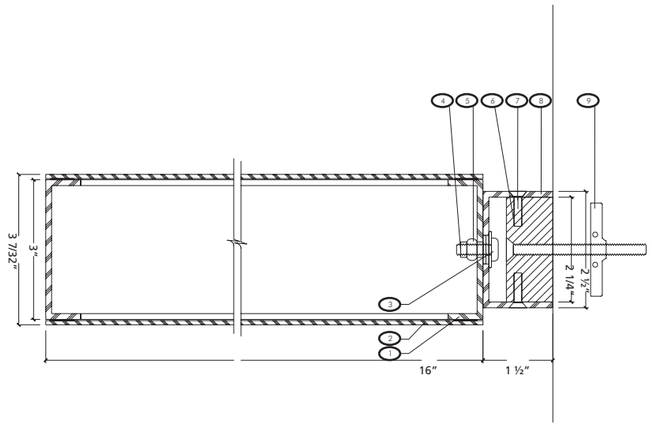
SIGN FACE LAYOUT

Scale: 1 ½"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL (For Design Intent Only)

Scale: N.T.S.

Flag Mount - Identification ST - 375

DESCRIPTION: Elevator ID

LOCATION: Used at elevator banks at pedestrian lobbies.

MATERIALS: Extruded aluminum sign face structure with removable face panel.

LETTERING:
- A N/A
- B N/A

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: 3M Opaque Film #220-10 or approved equal(White)
- 3 Band: 3M Opaque Film #220-10 or approved equal (White)
- 4 Symbol: 3M Opaque Film #220-10 or approved equal (White)
- 5 Arrow: 3M Opaque Film #220-10 or approved equal (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Flag Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

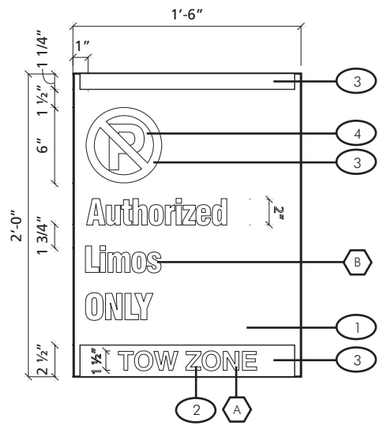
NOTES:

1. 3" X 1 X 1/8" alum channel frame.
2. .090" alum face
3. 1/4 - 20 X 3/4" SS PH CS MC 91772A540 (X3)
4. 1/4" SS flat washer MC 92141A029 (X3)
5. 1/4" - 20 RIVNUT (X3)
6. 2- 1/4" X 1" X 12" PVC
7. 10 -32 X 3/4" SS FH MS tamper resistant
8. 2- ½"X 1-1/2" X 1/8" alum channel
9. 1/4- 20 toggler MC 97802A219

Identification Signs - Pedestrian 3.5.1

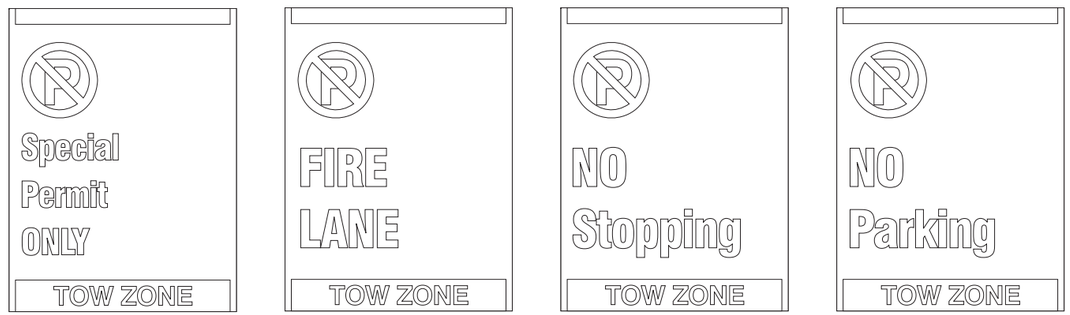
3.0 SIGN TYPES - PARKING

#	Revision	Date



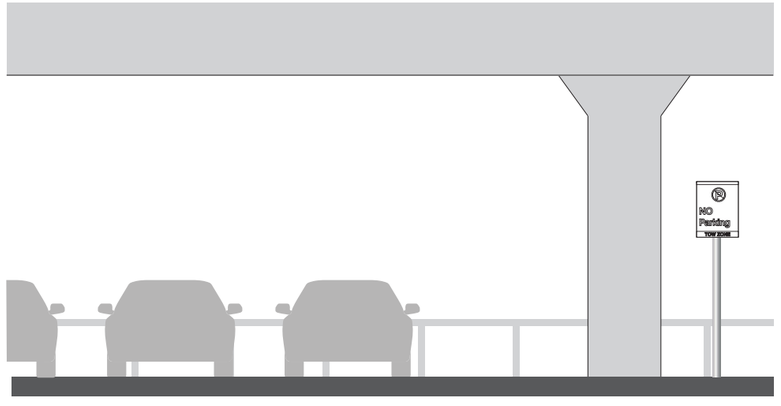
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



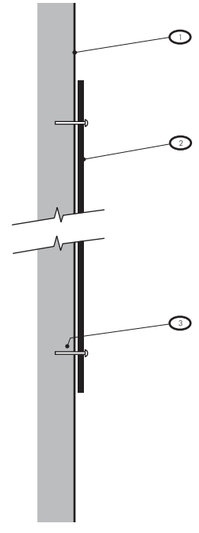
SIGN FACE ALTERNATE LAYOUTS

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Post Mount - Informational ST - 381

DESCRIPTION: Parking Regulatory

LOCATION: Used in and around parking garage areas.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 BlkCn BT Bold

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-13 or approved equal (Red)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Post Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

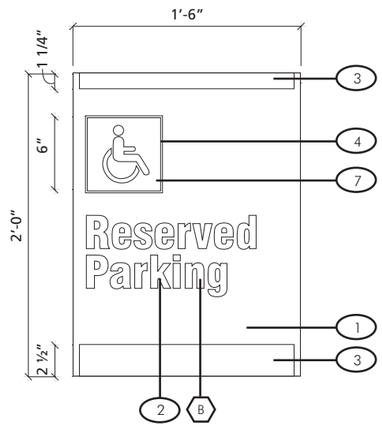
1. Wall surface (varies); wood barriers, metal panels, or posts.
2. Aluminum panel, mounted on various wall surfaces with bolts punctured through the panel surface.
3. When applicable, drill only into mortar joints avoiding solid masonary faces.

Use mounting plate if necessary for variable wall conditions.

Informational Signs - Vehicular 3.5.1

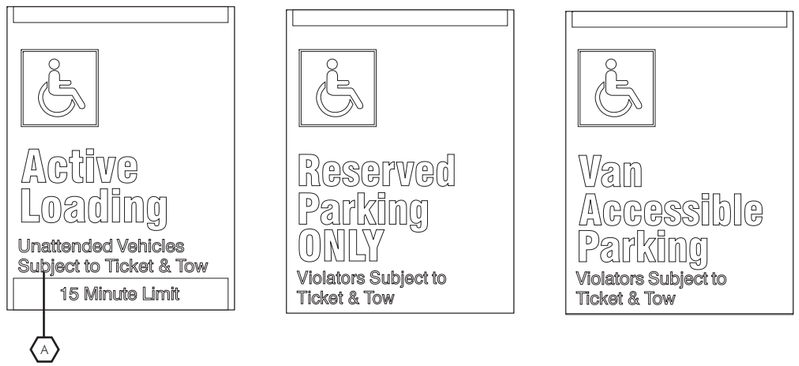
3.0 SIGN TYPES - PARKING

#	Revision	Date



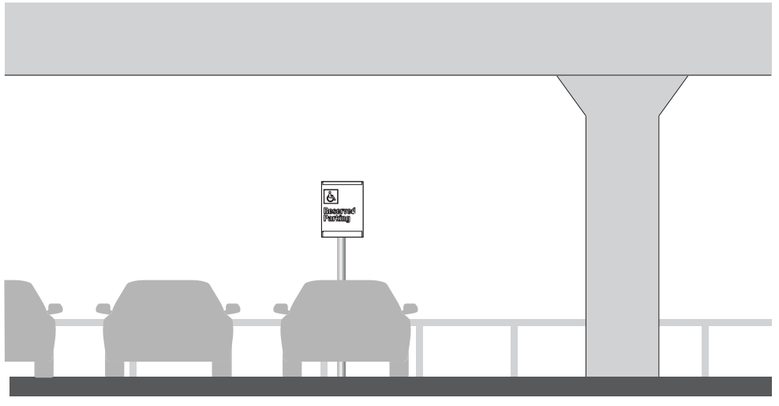
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



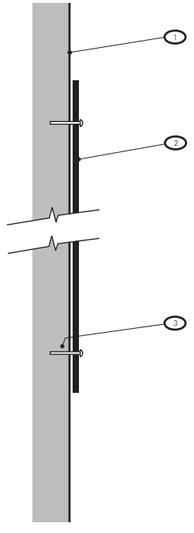
SIGN FACE ALTERNATE LAYOUTS

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Post Mount - Informational ST - 382

DESCRIPTION: Handicap Regulatory

LOCATION: Used in and around parking garage areas.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:

- A Swiss721 BT
- B Swiss721 BlkCn BT

SYMBOLOGY: Refer to Section 2.2.2

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-13 or approved equal (Red)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Symbol Background: 3M Opaque Film # 220-47 or approved equal (Blue)

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Post Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

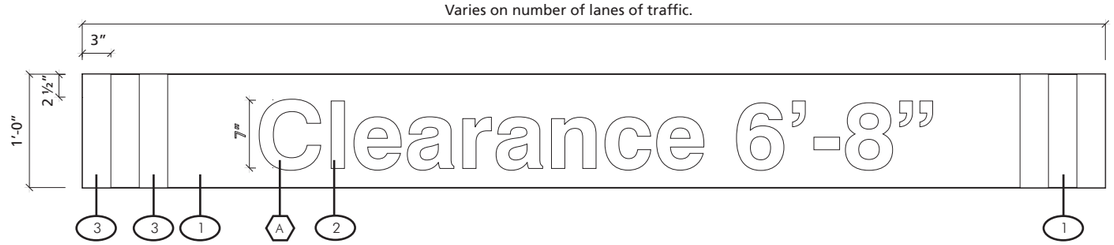
1. Wall surface (varies); wood barriers, metal panels, or posts.
2. Aluminum panel, mounted on various wall surfaces with bolts punctured through the panel surface.
3. When applicable, drill only into mortar joints avoiding solid masonary faces.

Use mounting plate if necessary for variable wall conditions.

Informational Signs - Vehicular 3.5.1

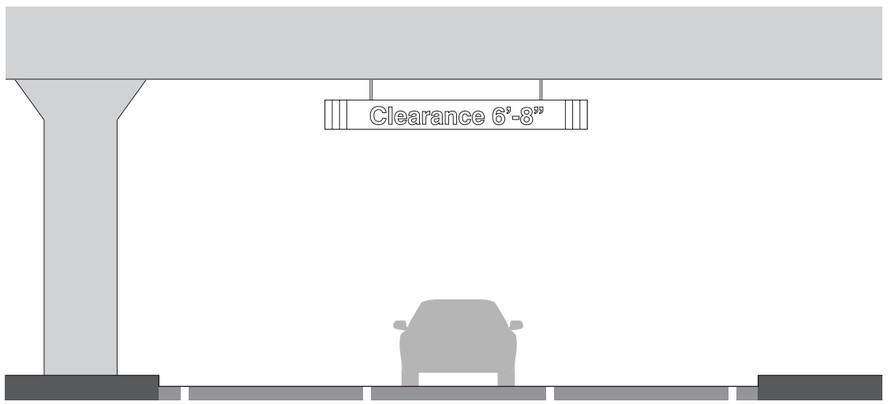
3.0 SIGN TYPES - PARKING

#	Revision	Date



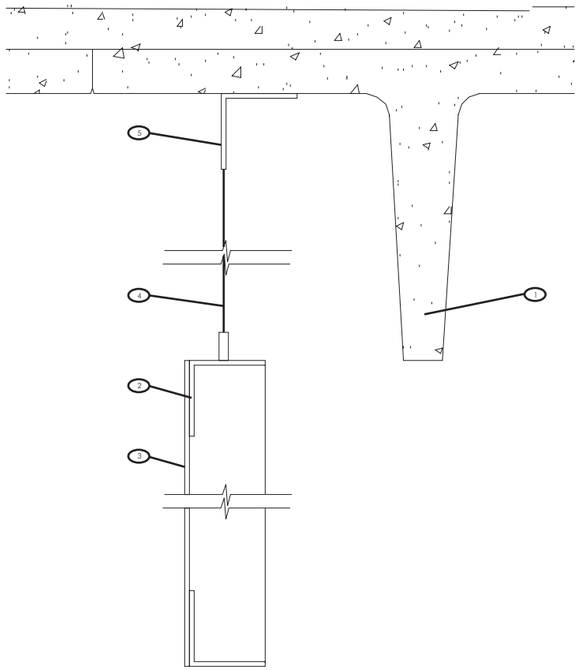
SIGN FACE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



HANGING DETAIL

Scale: N.T.S.

Overhead - Informational ST - 383

DESCRIPTION: Vehicular Clearance ID

LOCATION: Overhead to delineate height clearance for vehicular traffic.

MATERIALS: Fabricated stainless steel panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: N/A

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: 3M Opaque Film #220-10 or approved equal(White)
- 3 Band: 3M Opaque Film # 220-45 or approved equal (Yellow)
- 4 Symbol: 3M Opaque Film #220-10 or approved equal (White)
- 5 Arrow: 3M Opaque Film #220-10 or approved equal (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Ceiling suspended.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

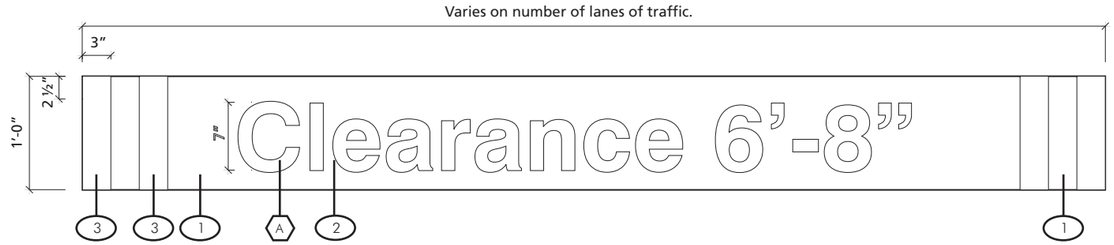
NOTES:

1. Existing reinforced conrete structure.
2. 2" "L" bracket support. Weld attach to sign face.
3. 1/8" aluminum sign face.
4. 1/8" cable.
5. 2" "L" bracket. Hilti anchor attach to reinforced concrete structure.

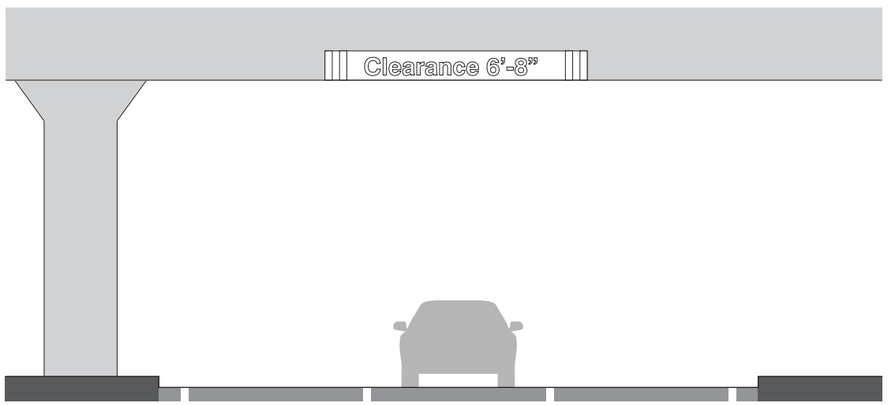
Informational Signs - Vehicular 3.5.1

3.0 SIGN TYPES - PARKING

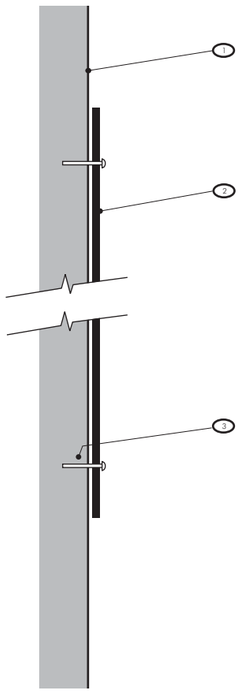
#	Revision	Date



SIGN FACE LAYOUT
Scale: 3/4"=1'-0"



ELEVATION
Scale: N.T.S.



DETAIL
Scale: N.T.S.

Overhead - Directional ST - 384

DESCRIPTION: Vehicular Clearance ID

LOCATION: Overhead to delineate height clearance for vehicular traffic.

MATERIALS: Fabricated stainless steel panel.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
- 1 Background: 3M Opaque Film #7725-12 or approved equal (Black)
- 2 Text: 3M Opaque Film #220-10 or approved equal(White)
- 3 Band: 3M Opaque Film # 220-45 or approved equal (Yellow)
- 4 Symbol: 3M Opaque Film #220-10 or approved equal (White)
- 5 Arrow: 3M Opaque Film #220-10 or approved equal (White)
- 6 Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 7 Arrow circle: 3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Soffit Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

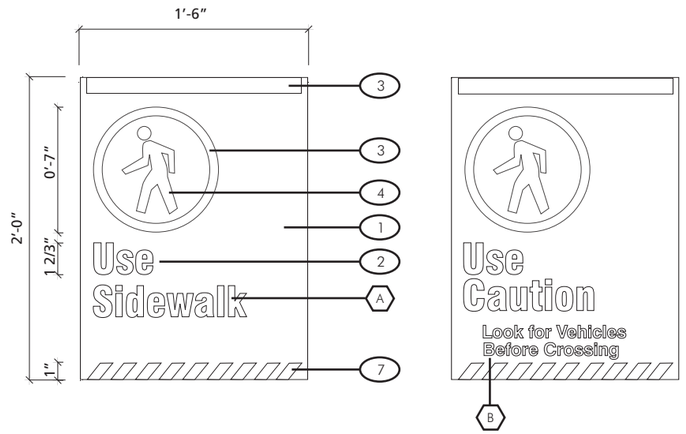
1. Wall surface (varies); wood barriers, metal panels, or posts.
2. Aluminum panel, mounted on various wall surfaces with bolts punctured through the panel surface.
3. When applicable, drill only into mortar joints avoiding solid masonary faces.

Use mounting plate if necessary for variable wall conditions.

Informational Signs - Vehicular 3.5.1

3.0 SIGN TYPES - PARKING

#	Revision	Date

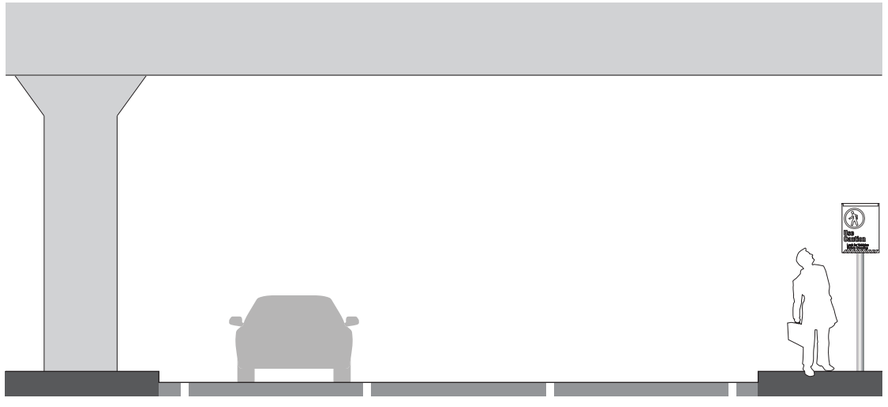


SIGN FACE LAYOUT

Scale: 3/4"=1'-0"

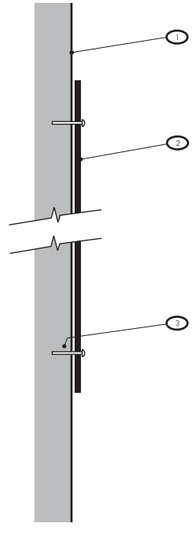
SIGN FACE ALTERNATE LAYOUT

Scale: 3/4"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Post Mount - Informational ST - 391

DESCRIPTION: Pedestrian Regulatory

LOCATION: Used in and around parking garages areas.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:

- A Swiss721 BlkCn BT
- B Swiss721 BT Bold

SYMBOLOGY: Refer to Section 2.2.2

COLORS:

1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film #220-13 or approved equal (Tomato Red)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Detail: 3M Opaque Film # 220-45 or approved equal (Yellow)

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Post Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

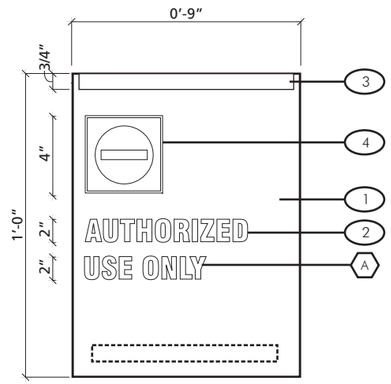
1. Wall surface (varies); wood barriers, metal panels, or posts.
2. Aluminum panel, mounted on various wall surfaces with bolts punctured through the panel surface.
3. When applicable, drill only into mortar joints avoiding solid masonary faces.

Use mounting plate if necessary for variable wall conditions.

Informational Signs - Pedestrian 3.5.1

3.0 SIGN TYPES - PARKING

#	Revision	Date



SIGN FACE LAYOUT

Scale: 1/6"=1'-0"



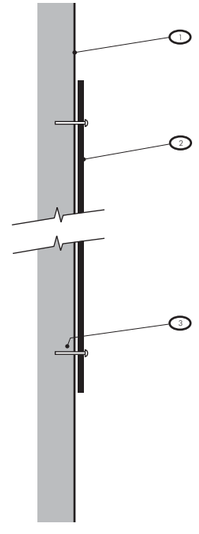
SIGN FACE ALTERNATE LAYOUTS

Scale: 1/6"=1'-0"



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Post Mount - Informational ST - 392

DESCRIPTION: General Regulatory

LOCATION: Used in and around parking garages areas.

MATERIALS: Fabricated stainless steel panel with vinyl graphics.

LETTERING:
- A Swiss721 BlkCnBT Bold
- B N/A

SYMBOLOGY: Refer to Section 2.2.2

COLORS:
1. Background: 3M Opaque Film #7725-12 or approved equal (Black)
2. Text: 3M Opaque Film #220-10 or approved equal(White)
3. Band: 3M Opaque Film to match PMS # 425 C or approved equal(Gray)
4. Symbol: 3M Opaque Film #220-10 or approved equal (White)
5. Arrow: 3M Opaque Film #220-10 or approved equal (White)
6. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
7. Arrow circle:3M Opaque Film (dark Gray) #7725-41

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Post Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. Wall surface (varies); wood barriers, metal panels, or posts.
2. Aluminum panel, mounted on various wall surfaces with bolts punctured through the panel surface.
3. When applicable, drill only into mortar joints avoiding solid masonary faces.

Use mounting plate if necessary for variable wall conditions.

Informational Signs - Pedestrian 3.5.1

#	Revision	Date

Graphics to be provided by Massport

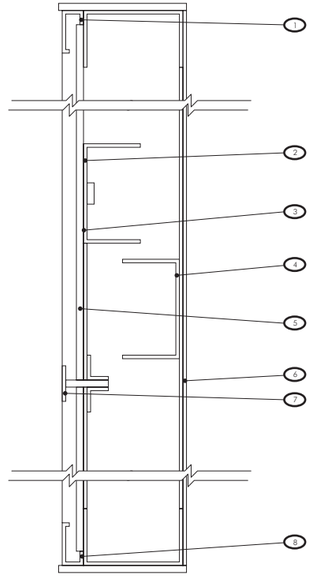
SIGN FACE LAYOUT

Scale: NTS



ELEVATION

Scale: N.T.S.



DETAIL

Scale: N.T.S.

Wall Mount - Informational ST - 393

DESCRIPTION: Garage Directory

LOCATION: Parking garage at elevator banks.

MATERIALS: Photographic digital lambda process color print.

LETTERING:
- A N/A
- B N/A

SYMBOLOGY: Refer to Section 2.2.2

COLORS: N/A

GRAPHICS: Graphics to be provided by Massport.

ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

NOTES:

1. ½"X 1" aluminum tube bottom right corner cut as shown.
2. 2-1/2" x 1-1/2" aluminum channel back stay to support sign.
3. Weld to channel flush at face.
4. 2-1/2" x 1-1/2" aluminum channel added for wall mount units; two required along back.
5. 3/16" thick sintra panel with graphics.
6. 1/16" aluminum backer panel for sign support, painted black.
7. Removable sign divider.
8. ½"X 1" aluminum tube top right corner cut as shown

Informational Signs - Pedestrian 3.5.1

#	Revision	Date

Graphics to be provided by Massport

SIGN FACE LAYOUT
Scale: NTS



ELEVATION
Scale: N.T.S.

Wall Mount - Informational ST - 394

DESCRIPTION: Elevator Button Directory

LOCATION: Inside elevator cabs above call buttons.

MATERIALS: N/A

LETTERING:
A N/A
B N/A

SYMBOLOGY: N/A

COLORS: N/A

GRAPHICS: Graphics to be provided by Massport.

ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: Sign will be Non Illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications

Informational Signs - Pedestrian 3.5.1

#	Revision	Date

It is important to summarize the previous signage related efforts, in an attempt to clarify the criteria for which this document is based and for a general understanding of the efforts that have lead up to the updating of the Boston Logan International Airport Signage Standards and Guidelines project.

Background

Boston Logan International Airport (BOS) is currently the 18th busiest airport in the USA and New England's primary airport, with over 26 million passengers per year using the Airport. By the year 2010, over 37 million passengers per year are expected to use the Airport's facilities.

Boston Logan International Airport is a conjunction of five connected individual terminals (Terminals A, B, C, D and E) and two major parking garages (Central Parking and Terminal B Parking). Each one of these facilities has its own architectural style, which may become an issue when trying to implement signage that is consistent throughout the Airport. Different signage systems have been implemented to custom fit the conditions of each facility resulting in a variety of sign types and sizes without uniform systematic characteristics.

As of February 2005, the issuance of this document, there are several "systems" in place that create a variation in signage conditions. The "older" system developed by Peter Muller-Munk in 1990 is still within place in several areas of the Airport (Terminal C, for example). In addition, Terminal B and its associated parking areas have an "older" signage system that was developed and implemented by the airlines.

As part of the Logan Modernization program for major landside improvements (terminals and roadways), Massport decided to establish Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft) submitted in May 2002 by Karen Lewis Design, Inc.(Graphic Standards) in an effort to create a seamless and cohesive signage system for the Airport.

These Graphic Standards have been and are continuously being implemented in sections of the Airport (Ex. Terminal E, B/C walkways). Future projects such as MPA Project No. L219-C3 Central Parking Garage Repairs and Expansion and Terminal A Redevelopment are being signed based on Karen Lewis Sign Program Guidelines and Graphic Standards.

Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft):
This program consists of a variety of sign type families for terminals, curbside, roadways and Airport service buildings. Karen Lewis Design Inc. Provided Massport with four volumes total that reference specifically to each one of these areas:

- Volume 1: Passenger Terminals Interior
- Volume 2: Passenger Terminals Curbside (Exterior)
- Volume 3: Airport Roadways (Terminal Roadways, Egress Roadways and Service Roads)
- Volume 4: Airport Service Buildings (Support Facilities)

#	Revision	Date

Background cont'd

Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft) cont'd:
Each set of sign families consisted of a variety of Directional, Informational, and Identification signs. However; a comprehensive family of identification sign types addressed for Terminals, Gates, and other important facilities/functions is not included in the program.

The existing Graphic Standards propose the use of terminal icons to identify the terminals. These icons carry the color and the letter designated for each terminal (Terminal A: Blue, Terminal B: Red, Terminal C: Green, Terminal D: Orange and Terminal E: Purple). These colors are used in directional signs in the roadways and the terminals.

Conceptual Report:
In an effort to make the passenger's wayfinding experience more pleasant throughout Boston Logan International Airport, the Massachusetts Port Authority (Massport) has decided to evaluate the feasibility of an alternate "color coded system" for the signage program and to review the existing Graphic Standards.

Massport has enlisted the services of Carter & Burgess, Inc (CB) to evaluate the possibility of an alternate "color coded system" and to provide examples of different "color coded systems" currently being implemented at other airports around the country.

The analysis of the existing "color-coded" systems within other airports, that Carter & Burgess, Inc reviewed, consisted of examples from the current Amsterdam's Schiphol International Airport. This specific system utilizes three sign background colors to differentiate between three primary airport function groupings: (yellow) flight services, (green) leaving the airport, and (black) auxiliary services.

Carter and Burgess, Inc summarized and evaluated the "color coded" system, reviewed the in-place signage conditions and current Graphic Standards at BOS and provided Massport with recommendations and alternatives to improve the Airport's signage system. The alternatives and brief description are as follows:

ALTERNATIVE 1 - MODIFY / PROCEED WITH CURRENT GRAPHIC STANDARDS:
Update and further standardize the current Graphic Standards along with additional solutions to enhance the overall program. There are areas on these standards that require enhancement, such as curbside color-coding, messaging on overhead roadways, addition of supplemental sign types, etc. In addition, there is a need to include dynamic signage, VMS, and a signage database.

ALTERNATIVE 2 DEVELOP NEW COLOR-CODED SIGN PROGRAM:
Re-evaluate the current sign program airport-wide and revise the system to be in compliance with the color-coding based on the "Schiphol-model".

ALTERNATIVE 3 HYBRID SIGNAGE SYSTEM:
Integrate the new color-coding principles with the current Graphic Standards. The alternative would include implementing color-coding to a lesser degree than used at Schiphol or NY/NJ, but still utilize the methodology of the system. Color-coding only the international symbols or using color-coding rule lines/ bands may achieve this.

#	Revision	Date

Background con't.

Conceptual Report con't:
The complete list of conclusions and recommendations as well as the results of the study can be found in the "Conceptual Report: Color-Coded Wayfinding Study" submitted to Boston Logan International Airport on April 2003.

Wayfinding Analysis and Plan:
Based on the recommendations and alternatives proposed by CB in the "Conceptual Report: Color-Coded Wayfinding Study", Massport commissioned Carter and Burgess to develop a Wayfinding Analysis and Plan in July 2003.

The purpose of the Wayfinding Analysis and Plan was to identify and determine key wayfinding decision points for passengers throughout Boston Logan International Airport for proper wayfinding signing. This analysis included terminals, curbside, garage, frontage roadways, etc. , and develop a plan of recommendations showing conceptually how to improve these problematic areas. CB performed a series of site surveys at BOS in order to identify and determine major circulation patterns throughout the airport as well as major decision points.

The data collected during those visits through photos, videos, surveys, meetings and drawings was used to determine key recommendations that would improve the wayfinding and signage system at the Airport.

In general, the study found that there are signage issues, short-term and long-term, that need to be addressed at BOS. CB provided Massport with general recommendations that would improve the wayfinding and signage system at BOS in both short-term and long-term bases.

SHORT-TERM RECOMMENDATIONS:
As part of the short-term solutions, Carter & Burgess, Inc determined typical problematic areas for proper wayfinding and signage throughout the Airport and recommend interim solutions for each one of these situations.

CB provided Massport with temporary solutions for terminals, curbside, parking and roadways that can be found in the packages listed below:

- Short-Term Recommendations Terminals: Submitted February 16th, 2004
- Short-Term Recommendations Curbside: Submitted March 16th, 2004
- Short-Term Recommendations Parking: Submitted March 16th, 2004
- Short-Term Recommendations Roadways: Submitted March 23rd, 2004

LONG-TERM RECOMMENDATIONS:
As part of the long-term solutions, CB studied the current signage systems being used at BOS and revised the current Graphic Standards that are being implemented in order to provide the Airport with long-term recommendations. These recommendations included changes in the nomenclature, terminology, message hierarchy, international symbols, color-coded system, sign types and other important issues that would affect the signage system throughout the Airport.

The long-term recommendations were presented to the BOS Signage Committee in different occasions through four Signage Committee Work-Sessions:

#	Revision	Date

APPENDIX

Background con't.

Wayfinding Analysis and Plan cont'd:

1. Signage Committee Work-Session No.1 held on 10/29/03
2. Signage Committee Work-Session No.2 held on 12/19/03
3. Signage Committee Work-Session No.3 held on 04/28/04

The decisions made by the Committee during the Work-Sessions determined the direction of the Signage Standards and Guidelines. Detailed recommendations regarding Terminology, Message Hierarchy, International Symbols, Typography, etc,. can be found in the Section 2.0 Graphic Standards of the Signage Standards and Guidelines for each area.

Signage Standards and Guidelines:
Upon the completion of the Wayfinding Analysis and Plan CB was commissioned for a third task at BOS. This task consisted of revising and modifing the Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft). This document is the third of five volumes of the Signage Standards and Guidelines developed by CB.

The objective of the Signage Standards and Guidelines is to provide a set of design standards, requirements and design criteria to be used for all interior and exterior signing applications at BOS. The document will be the primary reference for those designing and implementing the Airport's capital improvement program. Criteria relating to terminology/symbology, graphic layout, letter style, arrow size, size relationships, color relationships, sign types, mounting conditions, etc. is set forth in these standards and guidelines.

Signs Regulated by the Documents:

- All exterior and interior directional, identification, and informational signs for public throughout the airport property:
  - Access Roadway
  - Airport Roadway
  - Curbside (Upper, Lower)
  - Ground Transportation
  - Terminal(s)
  - Parking Garage and Sub-ordinate Parking Facilities
  - Airport Services Facilities

There are five "volumes" in the total set of Graphics Standards and Guidelines for BOS. Each volume is a separate reference to a different area(s) or new development as follows:

- Volume 1:Terminals
- Volume 2: Curbside and Ground Transportation
- Volume 3: Parking
- Volume 4: Roadways
- Volume 5:Airport Services Facilities

#	Revision	Date

Background, con't

Based on the determination of required messages in the various areas of the airport property and the relationship of message function to message hierarchy, a numbering system was developed to classify sign types. The following list outlines all of the sign type series used at BOS.

Series 100 - Terminal
- Directional 101 - 150
- Identification 151 - 180
- Informational 181 - 199

Series 200 - Curbside/Ground Transportation
- Directional 201 - 250
- Identification 251 -280
- Informational 281 - 299

Series 300 - Parking
- Directional 301 - 350
- Identification 351 -380
- Informational 381 - 399

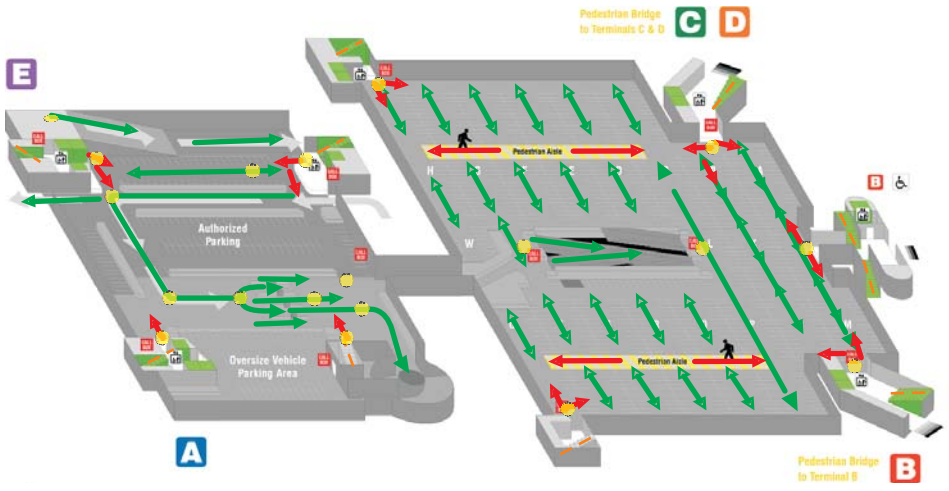
Series 400 - Roadways
- Directional 401 - 450
- Identification 451 - 480
- Informational 481 - 499

Series 500 - Airport Services Buildings
- Directional 501 - 550
- Identification 551 - 580
- Informational 581 - 599

APPENDIX

#	Revision	Date

Circulation Diagrams



Circulation Flow - Example taken from Central Parking

Traffic Flow Key			
Pedestrians Flow	Vehicular flow	Vertical Circulation	Decision Point

Figure A-01

#	Revision	Date

1.0 Overview
1.1 Volume 4: Roadways - Overview

2.0 Graphic Standards
2.1 Typography
2.2 Terminology/Symbology
2.3 Message Hierarchy
2.4 Arrow Standards
2.5 Color Standards

3.0 Sign Types - Roadways (400 Series)
3.1 Identification System
3.2 Grid Layouts
3.3 Mounting Requirements
3.4 Sign Type Index
3.5 Sign Type - Layouts
3.5.1 Directional Signs
3.5.2 Identification Signs
3.5.3 Informational Signs

Appendix
A.1 Signage Program Overview

#	Revision	Date

Purpose and Scope 1.1.1

The purpose of this volume of the Signage Standards and Guidelines is to outline general criteria for the design and/or fabrication of signage within roadways areas of Boston-Logan International Airport (BOS). This is intended to meet the particular needs of the traveling public while maintaining overall design cohesion with the signage system airport-wide.

Adherence to the standards of this document and official Massachusetts Port Authority (Massport) policies and procedures will ensure consistency throughout the signage system at BOS.

Signs Regulated by this document include:

- All exterior directional, identification, and informational signs for public visitors throughout the roadways area within the airport property.

Signs NOT Regulated by this document include:

- Terminal(s) (see Volume 1)
- Curbside and Ground Transportation (see Volume 2)
- Parking (see Volume 3)
- Cargo and support facilities
- Vehicular pavement markings
- Vehicular regulatory
- Rental car facilities
- Non-public areas

#	Revision	Date

Purpose and Scope cont'd. 1.1.1

This volume is organized in four main sections: Overview, Graphic Standards, Sign Types, and Appendix.

- **Overview** - includes an overall explanation of the signage program as well as the purpose and scope of the volume.

- **Graphic Standards** - includes general specifications applicable to all sign types, which include:
  - TYPOGRAPHY - application and standardization for all typography used on directional, informational, and identification signage.
  - TERMINOLOGY - includes all terminology that shall be used throughout the roadways.
  - SYMBOLOGY - includes all symbology that shall be used throughout the roadways, its application, restrictions and its corresponding terms.
  - MESSAGE HIERARCHY - includes message hierarchy for each category organized by sign types. Those categories are: Primary Messages, Secondary Messages and Tertiary Messages.
  - ARROW STANDARDS - includes arrow sizes, application on directional signage, orientations and placement.
  - COLOR STANDARDS - listing of all colors, paint equivalents, and transparency/ opaque vinyl specifications that shall be allowed through the roadways.

- **Sign Types** - specific sign layout information and application guidelines:
  - IDENTIFICATION SYSTEM - includes all the sign type series numbering and specific break down for the sign type numbering within each series.
  - GRID LAYOUTS - includes the grid sizes used to determine the sign types sizes.
  - MOUNTING REQUIREMENTS - descriptions of all the mounting styles that shall be used in the roadways are given. Specific application or special circumstances are delineated.
  - SIGN TYPE INDEX - sign descriptions and specifications referencing sign layouts and details.
  - SIGN TYPE LAYOUTS - includes sign face layouts, elevations and mounting descriptions.

- **Appendix** - may include forms, graphics, and/ or supplemental information relevant to this specific volume.

#	Revision	Date

Governing Codes and Standards 1.1.2

Governing codes, city ordinances and standards affecting the Boston Logan International Airport (BOS) signing and graphics system are outlined below. The following list of requirements have been compiled from the various governing codes affecting Boston-Logan International Airport. This list is not to be assumed as a complete list of requirements. If there is a conflict between a requirement listed below and another authoritative code or standard, the more stringent one shall be applied. This section is for reference only, and it is the designer's responsibility to meet all current applicable codes or regulations.

General Regulation Requirements

- In all rooms or areas where smoking is prohibited, plainly visible "NO SMOKING" signs (using either the verbiage or symbol, or both) shall be posted.
- Elements and space of accessible facilities which shall be identified by the International Symbol of Accessibility are:
    - Accessible passenger loading zones
    - Accessible entrances when not all are accessible (inaccessible entrances shall have directional signs indicating the route to the nearest accessible entrance)
    - Accessible toilets, when not all toilets are accessible
- An eggshell finish (11 to 19 degree gloss on 60 degree gloss meter) on sign faces is recommended.
- Illumination levels on sign surfaces shall be in the 100 to 300 lux range (10 to 30 foot candles) on interior signs, and shall be uniform over the sign surface. Signs shall be located such that the illumination level on the surface of the sign is not significantly exceeded by the ambient light or visible bright lighting source behind or in front of the sign.
- Characters and numbers on signs shall be sized according to the viewing distance from which they are to be read. The minimum height is measured using an upper case X. Lower case characters are permitted unless noted otherwise.
- For Braille signs the letters and numbers shall be raised 1/32" minimum, upper case, san-serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8", but no higher that 2". Pictograms shall be accompanied by the equivalent verbal description placed below the pictogram. The border dimension of the pictogram shall be 6"minimum in height.
- Each door to an exit stairway shall have tactile signing that states EXIT and complies with ANSI.

#	Revision	Date

Governing Codes and Standards cont'd. 1.1.2

AAAE	American Association of Airport Executives
AASHTO	American Association of State Highway and Transportation Officials
ACC	Airport Consultants Council
AIGA	American Institute of Graphic Arts
ANSI	American Nationals Standards Institute
ASTM	American Society for Testing and Materials
ATA	Air Transport Association of America
AWI	Architectural Woodwork Institute
CAA	Civil Aeronautics Administration
CAB	Civil Aeronautics Board
CABO	Council of American Building Officials
CSI	Constructions Specifications Institute
FAA	Federal Aviation Administration
FHA	Federal Highway Administration
IATA	International Air Transport Association
NEMA	National Electric Manufacturers Association
NFPA	National Fire Protection Association
MHD	Massachusetts Highway Department

Governing Bodies and Authoritative Organizations

Figure 1.1.1

ADA	American with Disabilities Act
ANSI	American National Standards Institute, Inc.
LSC	Life Safety Code (written by NFPA)
MBC	Massachusetts Building Code
MUTCD	Manual of Uniform Traffic Control Devices
NEC	National Electrical Code (written by NFPA)
SPC	Standard Plumbing Code (written by NFPA)
SBCCI	Standard Building Code
UBC	Uniform Building Code

Codes and Regulations

Figure 1.1.2

#	Revision	Date

Design Criteria 1.1.3

The design criteria for Boston Logan International Airport (BOS) is organized into sections which outline the procedures and requirements for development of a successful signage system to guide visitors through the airport facilities. These principles for design are intended to inform and instruct in properly establishing the signage standards and guidelines for roadways at BOS. This part of the document should be used as a basis for and supplement to the graphic standards to create a uniform and cohesive signing and graphics system for Boston Logan International Airport.

In development of the signage design for BOS, the following list of design requirements/ criteria should be applied to all the sign types:

- Methodology
- Nomenclature
- Wayfinding Factors Process
- Consistent Sign Placement
- Consistent Legibility

Methodology:
To comprehensively program the airport wayfinding, an in-depth analysis of the facilities and circulation has been conducted, and Wayfinding methodology has also been established which CB has included in these guidelines. All major airport facilities have been reviewed in a holistic approach to ensure wayfinding consistency throughout. The methodology shall begin with this review:

- All airport facilities plans (plans and elevations)
- Space functions
- Circulation paths
- Peak load circulation
- Established Nomenclature and Terminology
- Established Message Hierarchy
- Vertical and horizontal circulation
- Primary destinations
- Physical complications
- Connecting passengers verses Origin & Destination

NOMENCLATURE AND TERMINOLOGY:
The first issue that has been taken into account is the Nomenclature and Terminology. Terminology identifying airport functions and space has been standardized and established*(See section 2.2 in Graphic Standards)*.

MESSAGE HIERARCHY:
Hierarchy of messages exist for primary, secondary, and tertiary messaging. Ranking was based on routing or destination priorities and site, or space specific direction(s). The message hierarchy established in this document shall be used to develop message schedules for future signage *(See section 2.3 in Graphic Standards)*.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Methodology cont'd:

GRAPHIC STANDARDS:
The Graphic Standards section of this document shall be used as established in this document for the design of future signage *(See section 2.0 Graphic Standards)*. Included in the graphic standards would be documentation of:

- Font type, size relationships, kerning, spacing, etc.
- Symbols
- Arrows, types and relationships
- Language relationships and ranking
- Clear space
- Graphic element spacing
- Color, color coding
- Branded colors if applicable
- General materials consideration

SIGN TYPES:
The sign type family is the catalog of all directional, identification and informational signage applications. It functions as a tool for programming signs and allows for a much more effective process *(See section 3.0 Sign Types)*. This section includes primary and secondary sign types for:

- DIRECTIONAL SIGNS - Signage designed to facilitate circulation to and/ or from a specific destination within the airport property.
- IDENTIFICATION SIGNS - Signage designed for identification of specific areas or spaces within the airport property.
- INFORMATIONAL SIGNS - Signs or displays designed to convey airport information and services. Directories of floor plans, levels, airport services, airlines, gates information, etc.

Future signage shall be designed based on the sign types included in the Section 3.0 of this document. Information regarding acceptable sign sizes and mounting requirements is also included.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Nomenclature

NOMENCLATURE AND TERMINOLOGY

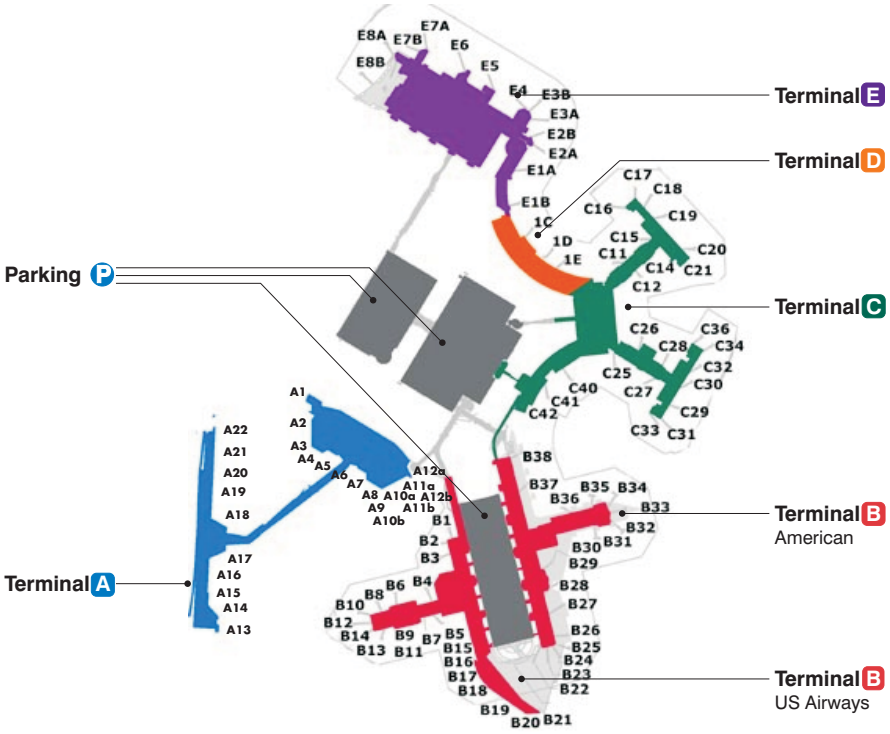
A. Existing Nomenclature:

• Terminals Designation: Boston Logan International Airport currently has four terminals and one under construction. Each facility is identified as Terminal A (under construction), Terminal B (American side and US Airways side) Terminal C, Terminal D, and Terminal E.

• Gates Designation: The gates designation at BOS is related to the terminals names as shown below:

- Terminal A: A1-A22
- Terminal B: B1-B38
- Terminal C: C11-C21, C25-26, C40-C42
- Terminal D: 1C, 1D, 1E
- Terminal E: E1A, E1B, E2A, E2B, E3A, E3B, E4, E5, E6, E7A, E7B, E8A and E8B

• Parking Nomenclature: Parking nomenclature has been addressed in the Signage Standards and Guidelines Volume 3: Parking.



Boston Logan International Airport - Existing Nomenclature

Figure 1.1.3

#	Revision	Date

Design Criteria con't. 1.1.3

Nomenclature con't.

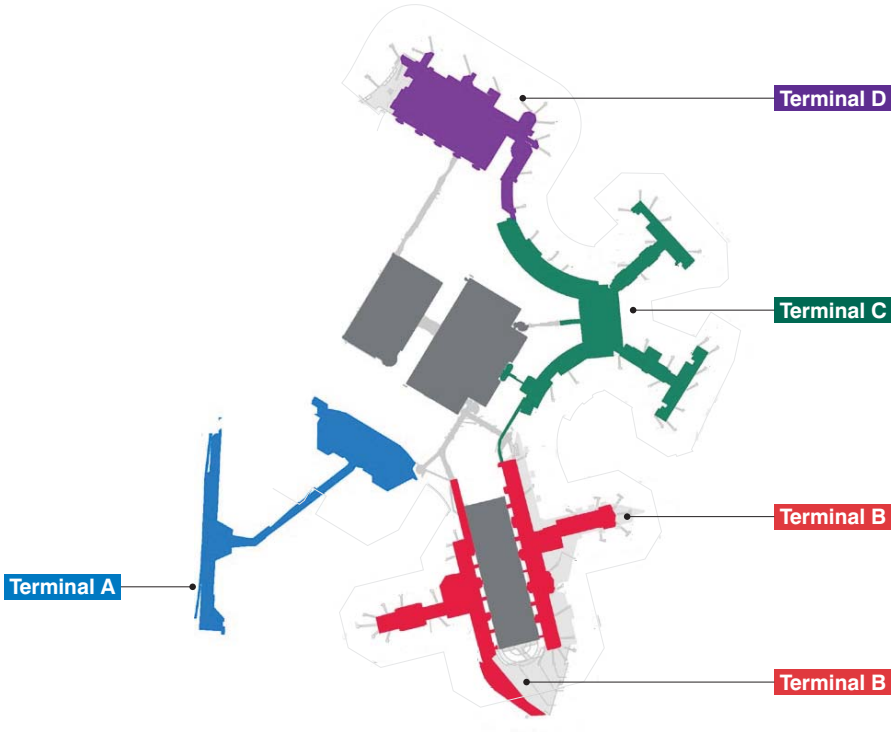
NOMENCLATURE AND TERMINOLOGY

B. Future Nomenclature:

• Terminals Designation: In an effort to simplify information in digestible segments for the traveling public, the Airport's terminals facilities will now be identified as: Terminal A, Terminal B, Terminal C, and Terminal D.

• Parking Nomenclature: Parking nomenclature has been addressed in the Signage Standards and Guidelines Volume 3: Parking.

Note: *Future Gate numbers to be determined by Massport*



Boston Logan International Airport - Future Nomenclature

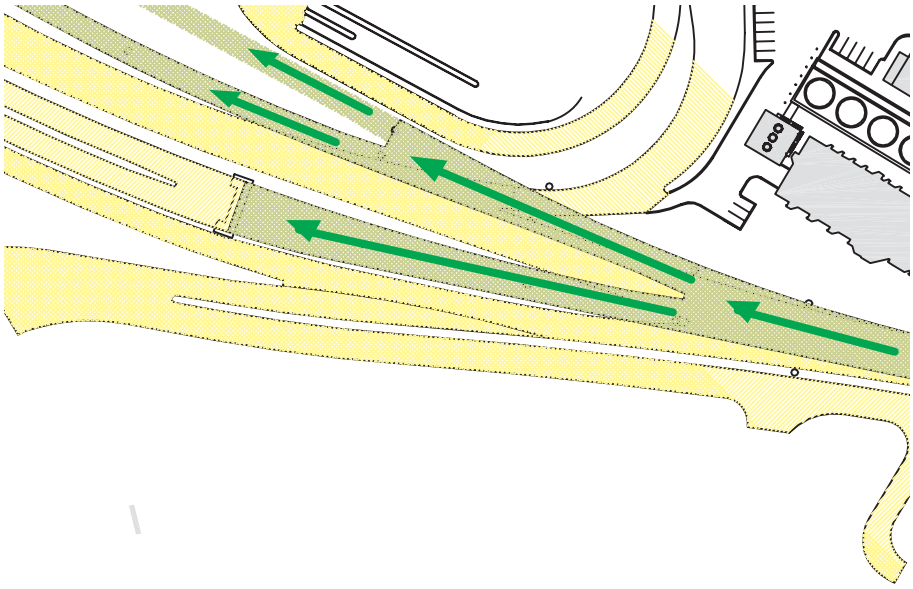
Figure 1.1.4

#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors:
The ability to orient and navigate through the various airport environments is fundamentally important. Wayfinding brings into play the analysis of spatial relationships and circulation studies.

CIRCULATION ANALYSIS:
Incoming and Outgoing (or Enplaning and Deplaning) circulation for major user groups shall be charted by the designer of the sign system. Points of origin and destination will be referenced as the basis for identifying critical decision points and information requirements. Primary vehicular circulation routes are depicted as solid lined arrows.



Circulation Flow

Figure 1.1.5

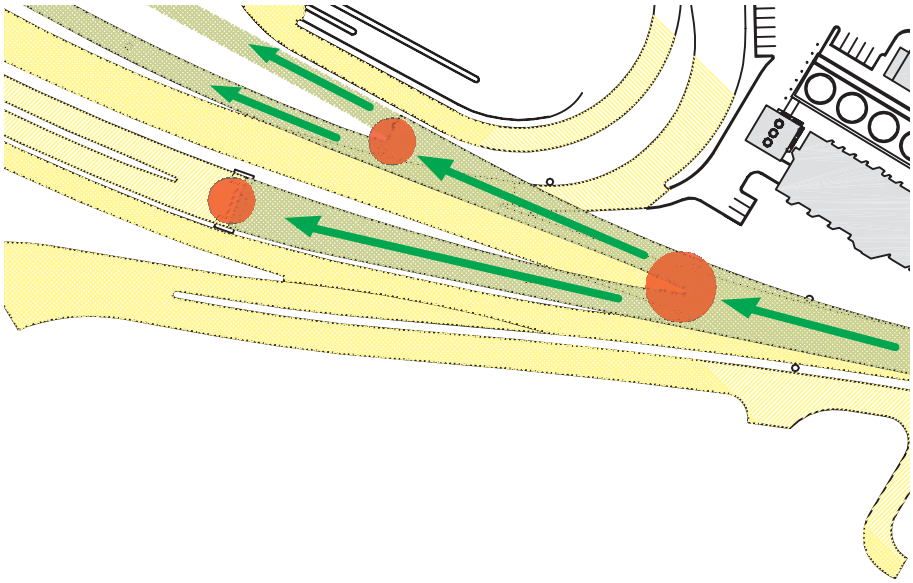
#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

IDENTIFICATION OF DECISION POINTS:
Decision points along user circulation routes shall be located at required direction changes and points where the user encounters alternative choices.

Examples of decision point locations within the existing roadways shall be identified as red circles at primary and secondary intersection/directional changing areas as shown below. These areas are the most optimal location for placing directional signs that inform the viewer of the existing alternative pathways.



Circulation Flow

Figure 1.

DETERMINING REQUIRED INFORMATION AT DECISION POINTS:
The type of information required at or preceding each decision point shall be determin
In addition, the location of messages identifying destination points should be determine

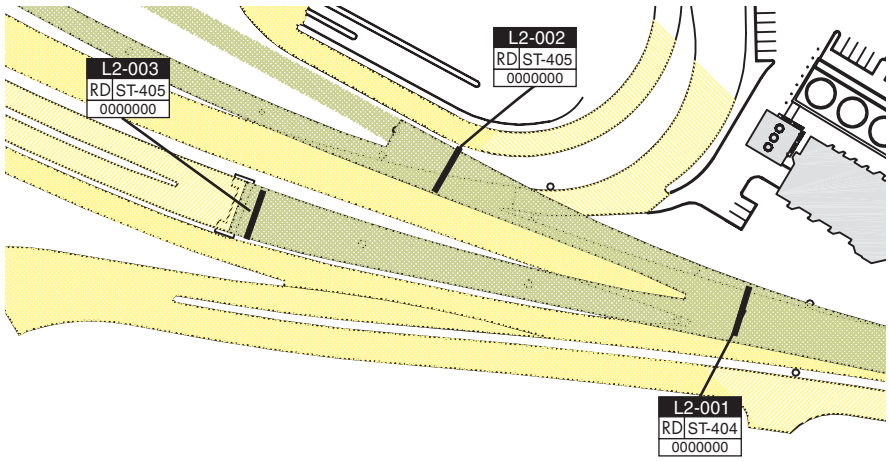
#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

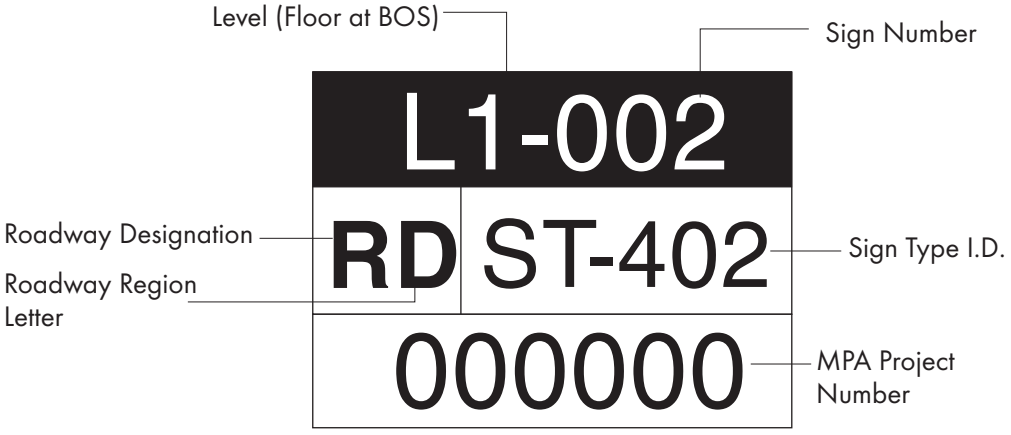
IDENTIFICATION OF SIGN LOCATIONS

Plans, cross sections and elevations of the roadways areas shall be analyzed by the



Circulation Flow - Example taken from Central Parking Garage

Figure 1.1.7



Sign Location Indicator Example

Figure 1.1.8

#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

DELIVERABLES:
Upon completion of the steps mentioned before, the designer shall provide the Airport with detailed drawings and information for the following:

- Circulation Analysis
- Identification of Primary and Secondary decisions points
- Detailed locations of each one of the signs to be constructed and implemented
- Signage database using the Sign location indicator system *(See figure 1.1.8)*

These shall be included for each facility within the Airport where signage is being developed for. (Terminals, Curbside, Parking, and Roadways).

The documents listed above are a compliment to the deliverables necessary to construct the signs (i.e, Sign layouts, message schedules, mounting specifications, construction specifications, etc...) which shall also be provided by the designer.

A detailed list of submitals shall be agreed on between the Authority and the designer prior to commencement of the project.

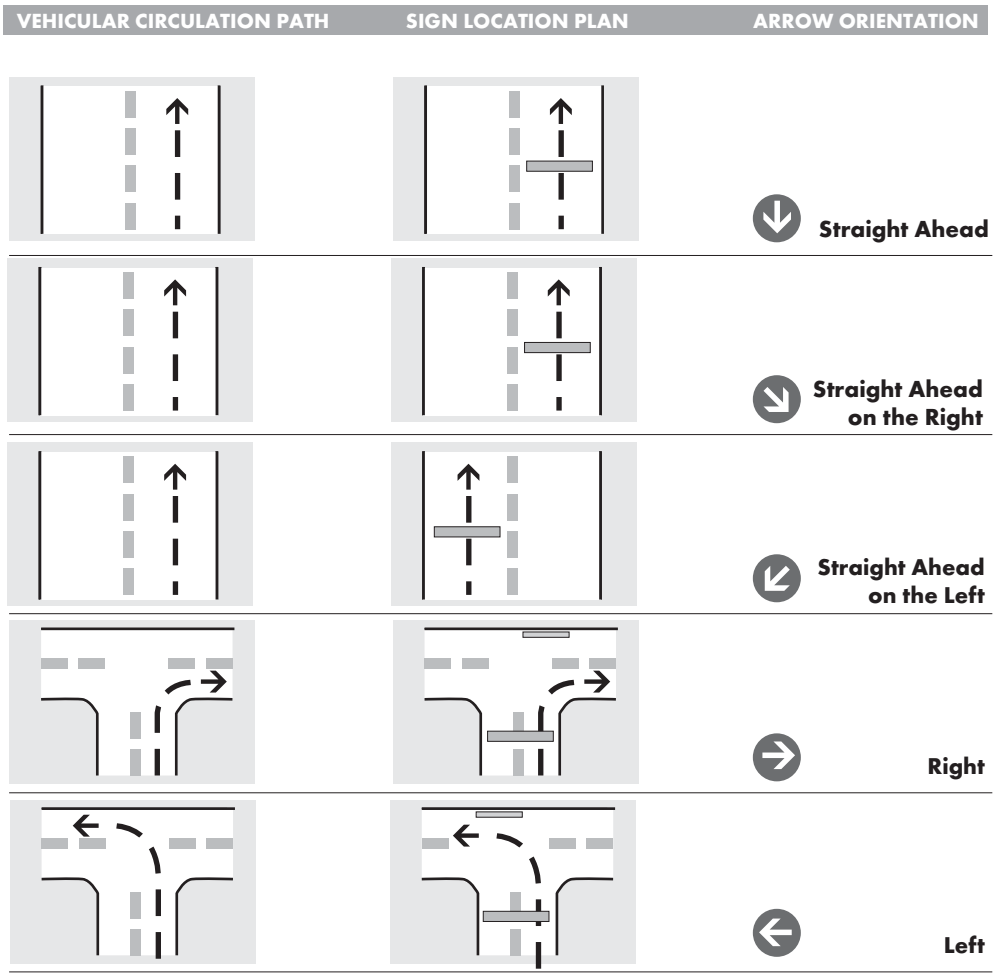
NOTE: This document is intended to be a guideline only. Each designer is expected to complete their due diligence in the design of all signage support structures and related items.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Vehicular Sign Placement:

Viewer circulation patterns and natural lines of vision are the basis for determining the location of all signs. Signs shall be located to precede decision points to ensure sufficient time for vehicles to react to each sign message.



Sign Placement (con't)

Figure 1.1.9

#	Revision	Date

Design Criteria 1.1.3

Legibility:

The following criteria and principles shall be applied to the design of traffic signs to convey messages adequately to the driver:

- Signs shall be easy to detect or attract the driver's attention. The most important information needed by most drivers, requiring the most immediate decision, shall be emphasized.
- Signs shall be legible under all conditions including day, night and inclement weather, and when seen at a glance. Simple verbal messages and symbols are more legible than complex ones.
- The message shall be clearly presented, with no sources of misinterpretation and ambiguity. The message shall not depend on a high order of logical deduction for its comprehension.
- The design of the sign shall be such that the information can be quickly rejected by those drivers not needing it.
- Legend and location shall conform to the drivers expectation based on pre-trip planning or previously obtained information, signs seen earlier, and subjective evaluation of the driving situation.
- Each type of information shall be ranked for its importance to the driver and this hierarchy shall be expressed in the use of color, size, shape, message from and in rules governing location.
- The system shall prepare the driver in advance for turning decisions and upcoming road and traffic conditions. Sign location shall allow adequate time to act on the information.
- Information requiring different types of action by the driver shall be conveyed differently.
- Signs shall be installed only where the information is needed. Overuse of signs results in mistrust.
- The use of all codes and forms of message content shall be uniform throughout the system.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility cont'd:

An item of information is defined as being a symbol, word, syllable or discontinuous shape. As a maximum, no more than six items of information shall be used to direct a driver in finding what he or she is seeking. No more than ten items of information shall be communicated from a property to an adjacent right-of-way by any one sign.

Field tests indicate that the reaction time allowing for a driver to see a sign, read it, and respond, shall be related to the number of lanes as follows.

2 lane road	8 seconds
4 lane road	10 seconds
6 lane road	11 seconds
Freeway	12 seconds

VEHICULAR LEGIBILITY ANALYSIS

Number of Lanes	Speed (MPH)	Reaction Time (Seconds)	Distance Traveled During Reaction (Feet)	Letter Height (Inches)	Total Areas Of Sign (Sq. Ft.) Commercial Industrial	Total Areas Of Sign (Sq. Ft.) Institutional Residential Agricultural
2	15	8	176	4.5	8	6
	30		352	7	25	18
	45		528	10	50	36
	55		704	14	100	70
4	15	10	220	4	8	6
	30		440	9	40	28
	45		660	13	90	64
	55		880	17	150	106
6	15	11	242	5	13	10
	30		484	9	140	28
	45		726	14	100	70
	55		968	19	190	134
Freeway	55	12	1056	21	230	162

Vehicular Legibility Analysis

Figure 1.1.10

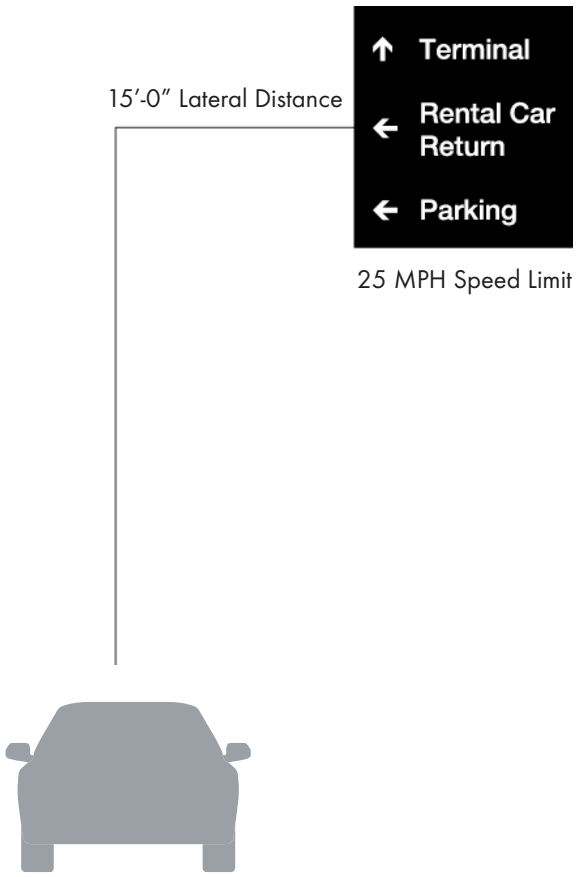
#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility cont'd:

Minimum viewing distance shall be affected by horizontal and vertical viewing angles. It is recommended that advance guide (directional) signs be spaced at least 800 feet apart, however that distance shall be lowered to 650 feet as speeds are reduced.

The legibility formula for determining letter height on roadway signs is as follows:



Exterior signs reference:

$$H=\frac{(N+6)V}{100}+\frac{S}{10}$$

H=Height of letters in inches
N=Number of Messages
V=Vehicle Speed in miles per hour
S=Lateral Distance from driver's path

Example: If a vehicle is traveling
25 MPH and the sign is 15'-0"
From the driver's path, the letter height
On the sign shall be calculated
Using the same following formula:

$$H=\frac{(6+6)\ 25\ (MPH)}{100}+\frac{15\ (Lateral\ Distance)}{10}$$

H=3 + 1.5

H=4.5 Inches

Vehicular Legibility Formula

Figure 1.1.11

#	Revision	Date

Change Procedures / Sign Replacement 1.1.4

Scope and Process for Signage Review

The following explains the scope and process for signage review .* TAA sign types are not goverened by the Guidelines and therefore should not fall under the review process. Aviation Projects, Operational Signage and Communications Projects may or may not need to comply with the Guidelines depending on project goals.

Signage projects should be addressed within the following contexts: Tenant Alteration Applications; Aviation Projects; Communication Projects; Operational Requirements and Capital Projects; the processes for developing Signage scope and design are described below.

Tenant Alteration Application: For a TAA Aviation Administration and Development's projects, the TAA Project Manager is the lead. The TAA Project Manager coordinates with the Manager of Aviation Signage at the inception of each project (whether large or small) to determine if the project will require signage. In some cases the Project will be required to develop a Signage Plan, in other cases Aviation Signage would provide the needed signage. The approach would be case by case.

Aviation Projects: Aviation Projects are lead by various staff within Aviation. The Project Manager meets with the Manager of Aviation Signage and all other stake holders at the inception of each project (whether large or small) to determine if the project will require signage. The Aviation Signage Manager works with stake holders and Project Manager to determine with signage is required and the best methodology for fabrication and whether to do work in-house or use outside vendors.

Communication Projects: For Communications Projects, various staff within Aviation and Communication takes the lead. The Aviation/Communications Team meets with the Manager of Aviation Signage and all other stake holders at the inception of each project (whether large or small) to determine if the project will require signage. The Aviation Signage Manager works with the stake holders and Team to determine what signage is required and the best methodology for fabrication and whether to do the work in-house or use outside vendors. Communications is responsible to provide design.

Operations Requirements: Operational Requirements include Parking, Ground Transportation, Security, Airline Changes, and the Airport Directory System. Aviation Signage Manager is the lead and is responsible for scope, design, fabrication, and installation.

Capital Projects: In a Capital Project, the lead person is the Project Manager. The Project Manager should meet with the Manager of Aviation Signage at the inception of each project (whether large or small) to determine if the project will require signage. In some cases the Project Manager will be required to develop a Signage Plan in other cases Aviation Signage would provide the needed signage. The approach would be case by case.

Provided by Massport on December 17, 2004.

#	Revision	Date

Change Procedures / Sign Replacement* 1.1.4

PHASE 1	Review Tasks	Details		Detail Tasks
Review by: Aviation Admin and Develop. Capital Programs Communications	Does Project Require Signage? If yes, what types?	Permanent	Scope	Wayfinding Location Identification Regulatory/Informational
		Temporary	Scope	Construction Signage Wayfinding
		Marketing/Communications	Scope	Roll Out
	How will signage be funded?	By Project? By Aviation Signage? By Communications?	Scope	Funding
	Does Project drive Signage Changes outside of Project Limits?		Scope	Wayfinding Location Identification Regulatory/Informational
	If so, how will signage be funded?	By Project? By Aviation Signage?	Costs	Funding Funding
	Assignment of Signage Tasks	Project Manager Designer Fabricator		

PHASE 2	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Circulation Diagrams	Arriving	Horizontal Vertical
		Departures	Horizontal Vertical
	Identify Critical Intersections		
	Develop Wayfinding Path Requirements		

PHASE 3	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Draft Sign Matrix	Sign Number Sign Type Sign Message	
	Draft Sign Location Plan		

PHASE 4	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Refine Sign Matrix	Sign Number Sign Type Sign Message	
	Refine Sign Location Plan		
	Design Sign Face Layouts		

Change Procedure / Sign Replacement

Figure 1.1.12

#	Revision	Date

All signage typography issues having to do with text size, fonts, capitalization, word spacing, letter spacing, and line spacing are discussed in this section of the document.

Acceptable Type Styles 2.1.1

All text on directional signs shall be set in Swiss 721 BT, unless otherwise specified.

Accepted specialized type styles used for identification and informational sign types are defined in the Specialized Type Style portion of this document *(See section 2.1.5)*.

Capitalization 2.1.2

Aside from special decorative uses and certain regulatory signs, all sign word messages shall be in initial uppercase followed by lowercase. Examples of exceptions:

EXIT
DO NOT ENTER
ATM
LEFT TURN ONLY
RIGHT TURN ONLY

- As required by the Americans with Disabilities Act, all tactile messages should be all upper case.
- All words should be capitalized except for articles, prepositions and conjunctions.
- A consistent capital letter height will be maintained when signs are used in sequence.

Restrictions 2.1.3

Typefaces or weights not described above should not be used. Modification of letter shapes is prohibited unless specified in the graphic standards or on the sign type layout.

Condensed, extended, slanted, outlined or otherwise distorted type should not be used.

Language to this effect should be included in the specifications for all additional airport sign projects.

#	Revision	Date

Type Style Application 2.1.4

The font used for all directional text messages on roadway signs are to be a consistent version of Swiss 721 BT. For all roadway signs, text should appear as equal weight using the established hierarchy of fonts of Swiss. Swiss 721 BT Bold shall be the established font for all text used on directional sign types, except for text used for all terminal identification (ID) symbols.

Specialized type style shall be used exactly as specified on each sign type layout. Do not vary from the sign type application provided in the layout *(Refer to each respective sign type for the exact specifications)*.

Note: Type face size shall be regulated depending on sign type.

Swiss 721 BT Bold Type Face Sizes
Swiss 721 BT Bold shall be used at the cap height specified for each sign type in Section 3.5 (Sign Types-Layouts).



Swiss 721 BT Bold Type Face

Figure 2.1.1

#	Revision	Date

Type Style Application cont'd. 2.1.4

Swiss 721 BT Black Condensed Type Face

The specialized font "Swiss 721 BT Black Condensed" shall be used in the areas outlined as followed. Swiss 721 BT Black Condensed should be used for identifying Boston Logan International Airport on sign headers.

ABCDEFGHIJKLMNOPQ
URSTUVWXYZ
abcdefghijklmnopqurs
tuvwxyz1234567890!
@#$% ^ &*()/?"",.

Swiss 721 BT Black Condensed Type Face

Figure 2.1.2

#	Revision	Date

Type Style Application cont'd. 2.1.4

Swiss 721 BT Black Condensed Italic Type Face

The specialized font "Swiss 721 BT Black Condensed Italic" shall be used in the areas outlined as followed. Swiss 721 BT Black Condensed Italic should be used for identifying the Welcome to message on sign type headers

ABCDEFGHIJKLMNOPQ
URSTUVWXYZ
abcdefghijklmnopqurs
tuvwxyz1234567890!
@#$% ^ &*()/?"",.

Swiss 721 BT Black Condensed Type Face

Figure 2.1.2

Specialized Type Style 2.1.5

Swiss 721 BT Black Type Face

The specialized font "Swiss 721 BT Black" shall be used in the areas outlined as followed. Swiss 721 BT Black should be used for letters of all terminal ID symbols.



Swiss 721 BT Black Type Face

Figure 2.1.3

#	Revision	Date

Letter Spacing 2.1.6

Unless otherwise indicated, all sign messages shall follow an approximate 5% kerning on interior signage and 10% on exterior signage. In some circumstances, modification of spacing between individual letter pairs may improve the appearance of the sign message. Samples of messages are required for all sign projects for review; and spacing recommendation shall be made where they can be shown to be advantageous. In these instances, hand-kerning may be required on internally illuminated signs to prevent "halation." Reducing normal letter or word spacing (e.g. to fit a lengthy message within a restricted area) shall be prohibited. Letter spacing should match the following:



Letter Spacing Comparison

Figure 2.1.4

#	Revision	Date

Word Spacing 2.1.7

Word spacing between related words is normally ¾ (.75) times the cap letter height. For example, a message using 3" cap letters will have 2 1/4" between words *(See Figure 2.1.5)*.



Word Spacing

Figure 2.1.5

Line Spacing 2.1.8

Line spacing shall be ½ (.50) times the cap letter height for words of a related message line. Spacing between unrelated message lines shall typically be 1 times the cap letter height *(See Figure 2.1.6)*.



Line Spacing

Figure 2.1.6

2.0 GRAPHIC STANDARDS

#	Revision	Date

The terminology/symbology has been divided into categories based on its function within the airport. These categories are as follows:

A. Principal Airport Nomenclature
B. Fundamental Airport Functions
C. Parking Facilities
D. Transportation Methods
E. Building Circulation
F. Services
G. Safety and Regulation
H. Concessions

Message Terminology 2.2.1

If a term is shown with a corresponding symbol, it shall always appear with its symbol unless otherwise noted.

Change Procedures for Terminology
Requesting changes for terminology shall require the same approval process as found in Large Scale - New Construction

Symbols - Basic Requirements 2.2.2

The symbols shown shall be used to reinforce and provide visual confirmation of sign messages for pedestrians, unless otherwise noted. These symbols were selected from those for the "Guidelines for Airport Signing and Graphics; Terminals and Landside; 'Third Edition'" developed by:

DOT - Department of Transportation
AIGA - American Institute of Graphic Arts
ATA - Air Transport Association of America
AAAE - American Association of Airport Executives
ACI-NA - Airports Council International-North America
ACC - Airport Consultants Council

These symbols are in broad use around the world. They are readily identified by the international traveling public.

Symbol Restrictions
Symbols not described in this section or not shown on the following pages shall not be used. New or customized symbols not described in this manual shall not be developed for use at BOS, unless authorized by the Massachusetts Port Authority.

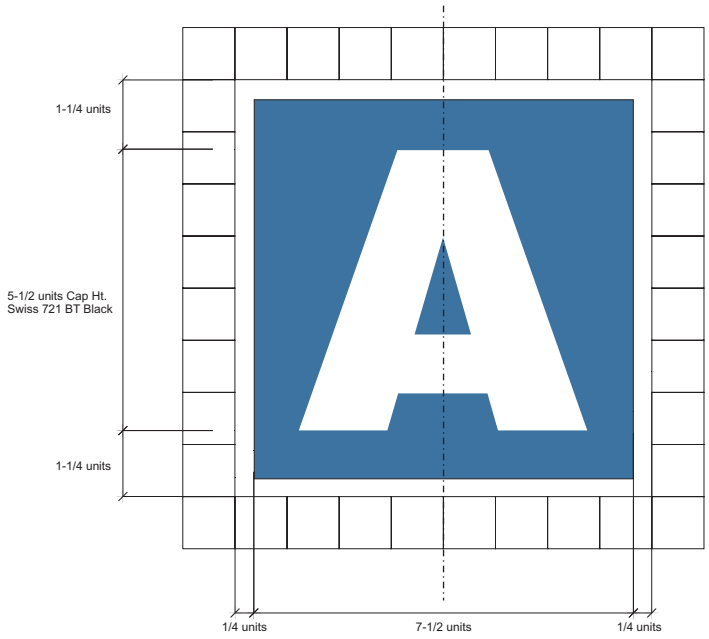
Regulatory Symbols
Symbol shape, placement and color on all vehicular regulatory signs shall conform to the Manual on Uniform Traffic Control Devices (MUTCD).

Change Procedures for Symbols
Requesting changes for symbology shall require the same approval process as found in Large Scale - New Construction.

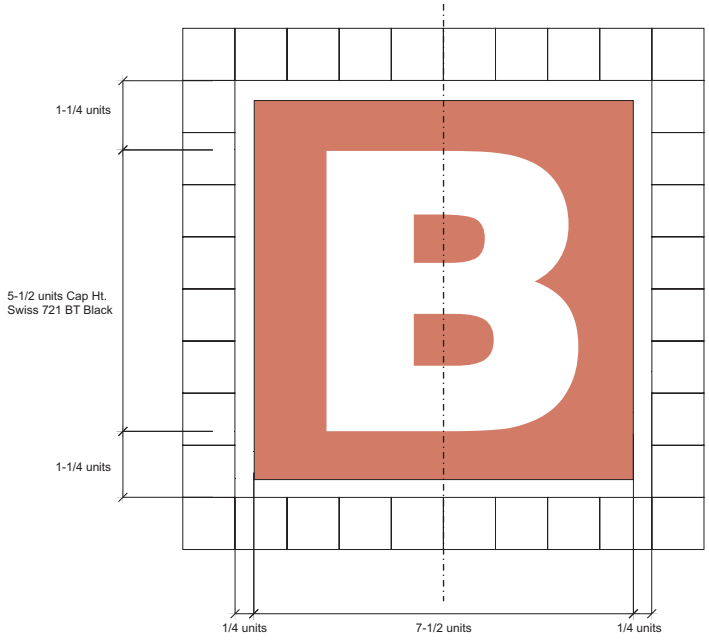
#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Terminal A Identification Icon:



Terminal B Identification Icon:



Terminal/Parking Identification Icons

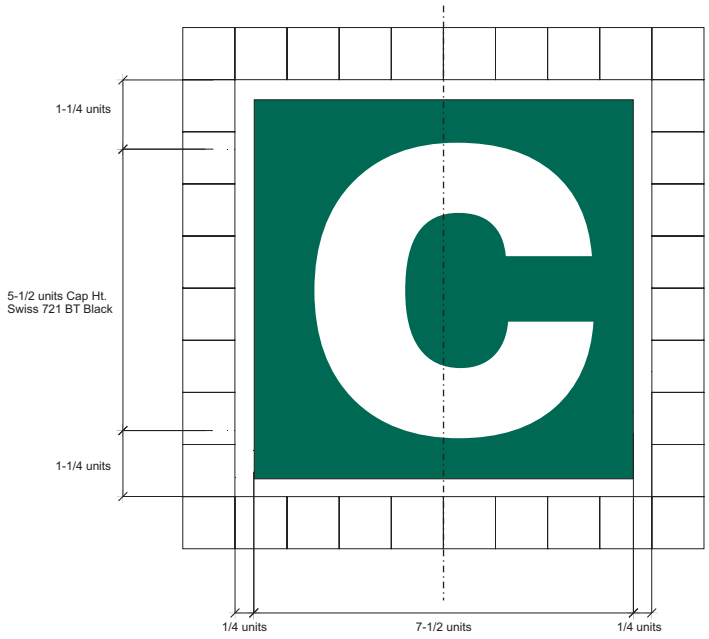
Figure 2.2.1

2.0 GRAPHIC STANDARDS

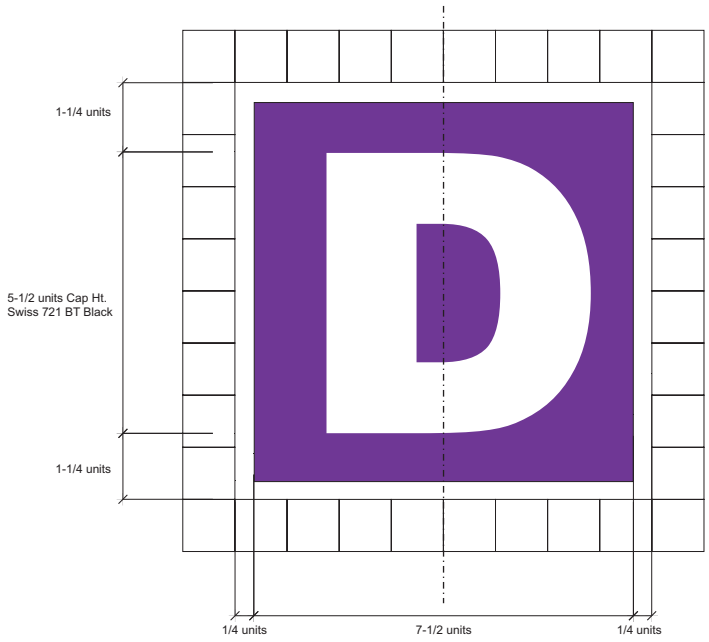
#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Terminal C Identification Icon:



Terminal D Identification Icon:



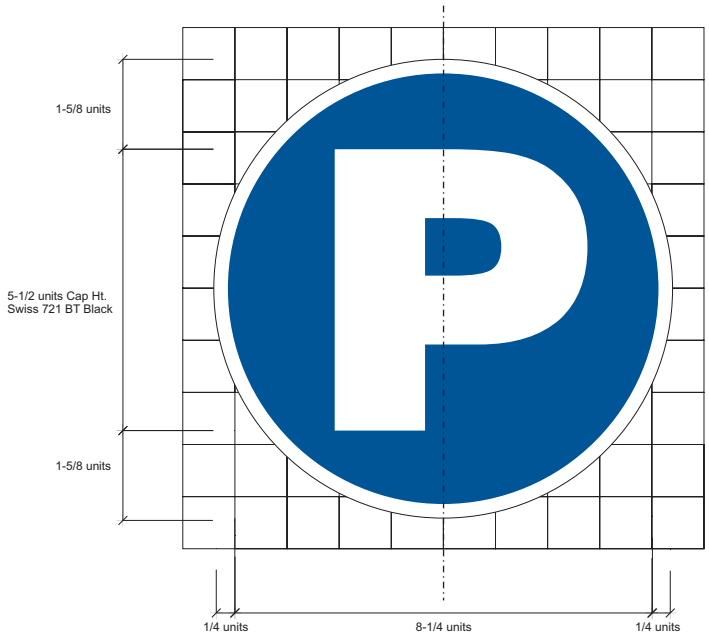
Terminal/Parking Identification Icons

Figure 2.2.1

#	Revision	Date

Symbols - Basic Requirements cont'd 2.2.2

Parking Identification Icon:



Terminal/Parking Identification Icons

Figure 2.2.1

#	Revision	Date

Terminology and Corresponding Symbol Applications 2.2.3

Principal Airport Nomenclature

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Terminal A		• Identifies the terminal that is designated as "A". • Is always used in conjunction with the term "Terminal." • Should not be used as an international symbol
Terminal B		• Identifies the terminal that is designated as "B". • Is always used in conjunction with the term "Terminal." • Should not be used as an international symbol
Terminal C		• Identifies the terminal that is designated as "C". • Is always used in conjunction with the term "Terminal." • Should not be used as an international symbol
Terminal D		• Identifies the terminal that is designated as "D". • Is always used in conjunction with the term "Terminal." • Should not be used as an international symbol
Parking		• Identifies the Parking facilities. • To be used as an international symbol.

Fundamental Airport Functions

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Baggage Claim		• Identifies baggage claim. • Primary information on overhead directionals.
Gates		• Identifies a gate. • Primary information on overhead directionals in the Terminals.
Ticketing		• Identifies ticketing and baggage check-in areas. • Primary information on overhead directionals in the Terminals.
Connecting Flights		• Identifies Connecting Flights. • Primary information on overhead directionals.

NOTE: The International Symbols listed in this section are those recommended by Carter and Burgess, Inc. Based on the *Guidelines for Airport Signing and Graphics - Terminal and Landside, Third Edition, 2001.*

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Fundamental Airport Functions cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
International Arrivals		• Identifies the International Arrivals/meeters and greeters lobby curbside. • Symbol/ Term combination is used on directional signs only.

Parking Facilities

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Parking		• Identifies parking. • Primary information on overhead directionals- Roadways..

Transportation Methods

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Ground Transportation		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs and directories throughout the airport.
Active Pick-up		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Airport Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Charter Busses		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Transportation Methods cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Hotel Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Limos		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Logan Express		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Off-Airport Parking		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Rental Car Shuttle		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Rental Car		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Transportation Methods cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Scheduled Busses		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Shared Vans		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.
Taxis		• Identifies Ground Transportation area. • Primary information on overhead directionals curbside. • Used on directional signs, ground transportation identification signs, and ground transportation directories throughout the airport.

Building Circulation

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Elevator		• Identifies an elevator.
Access Elevator		• Identifies handicap accessible elevator.
Escalator		• Identifies an escalator.
Stairs		• Identifies an enclosed stairwell.
Emergency Stairs		• Identifies an Emergency stairwell.

2.0 GRAPHIC STANDARDS

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Baggage Services		• Identifies the various airline baggage service offices. • Not used on overhead directionals.
Baggage Carts		• Identifies the baggage cart dispenser. • Not used on overhead directionals.
Currency Exchange		• Identifies a currency exchange station. • Used on directories throughout the airport. • Not used on overhead directionals.
Bank		• Identifies a bank. • Used on directories throughout the airport. • Not used on overhead directionals.
ATM/Money		• Identifies an automatic teller machine. • Used on directories throughout the airport. • Not used on overhead directionals.
First Aid		• Identifies a first aid station. • Used on directories throughout the airport. • Not used on overhead directionals.
Fire Extinguisher		• Identifies Fire Extinguisher locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Telephone		• Identifies Telephone locations. • Used on directories throughout the airport. • Not used on overhead directionals.
TDD/ TTY		• Identifies location(s) for a telecommunications device for the deaf. • Used on directories throughout the airport. • Not used on overhead directionals.
Assistive Listening		• Identifies Assistive Listening Services. • Used on directories throughout the airport. • Not used on overhead directionals.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Handicap Access		• Identifies handicap locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Information		• Identifies Information locations. • Used on directories throughout the airport. • Not used on overhead directionals.
Restrooms		• Identifies a location at which a Men's restroom and a Women's restroom occur. • Secondary information on overhead directionals throughout the airport. • Appears on identification signage throughout the airport. • Appears on directories throughout the airport.
Access Restrooms		• Identifies a location at which a handicap accessible restroom occurs. • Appears on identification signage throughout the airport. • Appears on directories throughout the airport.
Men		• Identifies a Men's restroom. • Not used on overhead directionals..
Women		• Identifies a Women's restroom. • Not used on overhead directionals.
Access Men		• Identifies a handicap accessible Men's restroom. • Not used on overhead directionals..
Access Women		• Identifies a handicap accessible Women's restroom. • Not used on overhead directionals.
Diaper Changing Station		• Identifies a diaper changing station or nursery. • Not used on overhead directionals.
Assisted Care		• Identifies an assisted care restroom. • Not used on overhead directionals.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Services cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Fax		• Identifies the location of a fax machine. • Appears on directories throughout the airport. • Not used on overhead directionals.
Postal Service		• Identifies a U.S. Mail box or Postal Office. • Appears on directories throughout the airport. • Not used on overhead directionals.
Lost and Found		• Identifies the lost and found office. • Appears on directories throughout the airport. • Not used on overhead directionals.
Hotel Information		• Identifies the location of Hotel Information. • Appears on directories throughout the airport. • Not used on overhead directionals.

Safety and Regulations

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
In-Transit Lounge		• Identifies the location of the In-Transit Lounge. • Appears on directories throughout the airport. • Not used on overhead directionals.
No Smoking		• Identifies areas where smoking is prohibited. • Not used on overhead directionals.
Smoking Permitted		• Identifies areas where smoking is permitted. • Not used on overhead directionals.
No Weapons		• Used on all FAA restrictive signage regarding the Transportation of Hazardous Materials. • Used at public entries of airport. • Not used on overhead directionals.
No Uncaged Animals		• Located at public entries of airport. • Not used on overhead directionals.
DO NOT ENTER		• Identifies a restricted area. • Not used on overhead directionals.

#	Revision	Date

Terminology and Corresponding Symbol Applications cont'd. 2.2.3

Safety and Regulations cont'd.

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
EXIT		• Identifies a common exit to the facility. • Not used on overhead directionals.
Passport Control		• Identifies the immigration area. • Used in the FIS area only.
No Parking		• Identifies areas where parking is not permitted.
Pedestrian Caution		• Identifies areas for pedestrians where caution is recommended.

Concessions

TERMINOLOGY	SYMBOL	INTERIOR APPLICATIONS
Food & Beverage		• Identifies category for all beverage services on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.
Food & Beverage		• Identifies category for all food services and restaurants on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.
Retail		• Identifies category for all retail services on airport directories. • Not used on overhead directionals. • Symbol appears on directories only.

#	Revision	Date

This section defines a uniform hierarchy of messages and information to be used throughout the Boston-Logan International Airport (BOS) complex. By using the terminology set forth in this document, the designer shall be able to organize messages into three succinct categories: Primary, Secondary, and Tertiary.

Message Functions 2.3.1

Directional Messages

Directional messages are of great importance in the facility due to the fact that they are the main information source that enables passengers and visitors to choose the proper route to a specific destination point. This process involves selecting the correct path to a destination point and determining at which point a change of direction is required. Proper directional signing is necessary since the rapid movement of vehicles, visitors, employees, and passengers is essential for maximum utilization and efficiency of the facility.

Identification Messages

Identification messages mark terminals, gates, ticketing, baggage claim locations, parking facilities, as well as, provide tenants' leasing space within the BOS complex with proper public exposure to their areas and other spaces governed by the airport authority.

Informational Messages

Informational messages typically provide specific and supplementary information about the airport services and functions. Also there are orientational messages that are often graphic, such as maps, so that visitors can develop a sense of the airport layout and their location within the airport.

Regulatory/ Safety Messages

Regulatory/safety messages relate to Federal Aviation Administration (FAA) requirements and recommendations as well as other federal, state, and city regulations. In general, these messages provide passengers with travel advice, warnings and legal restrictions.

Temporary Messages

Temporary messages fall into a separate category of messages. Temporary signs shall be used on an interim basis while permanent signs are in the process of repair or maintenance and as tentative signs while permanent signs are under construction.

#	Revision	Date

Message Hierarchy Relationships 2.3.2

Clear and concise information presented by Primary and Secondary signing systems ensures efficient passenger circulation. Tertiary signs must be coordinated with Primary and Secondary signs and interior design elements. This category of signs shall be distinguished from other signs by graphic methods.

Primary Messages
This information shall be the largest and most visible information on each sign. Primary information shall include:

- Exterior direction to and identification of Terminals, Arrivals, Departures, Ground Transportation, Parking, etc.

Secondary Messages
This information supplements or reinforces information already conveyed by the primary messages and signs listed above. It usually indicates the auxiliary services and support functions of the facility. Secondary information is to include:

- Exterior direction and identification of Ground Transportation, airline names, and Parking.

Tertiary Messages
Tertiary information supplements both the primary and secondary messages and is usually intended to inform visitors of regulations and warnings. All of the regulatory/ safety signs are generally considered to be tertiary. Tertiary information is to include:

- All "No Smoking" messages
- FAA required warning and information
- Other messages required by code

Functions and Hierarchy Relationships
It is important to understand that the same message may fall under a different category depending on its use. For example, a visitor on the roadway approaching the Terminal may find the term "Parking" as the primary message. However, the same term may also be found by a visitor in the Ground Transportation area and be considered secondary.

In general, emphasis shall be placed on the reduction of signs and sign content where possible. Additionally, the sign system shall move from the general to the more specific, as a user traverses the airport areas.

#	Revision	Date

Message Hierarchy Relationships cont'd. 2.3.2

Functions and Hierarchy Relationships (cont'd):
Critical to the smooth flow of pedestrian and vehicular traffic is the need for visual continuity amongst messages and information of the same hierarchy, thus eliminating any elements which may interrupt the scheme or confuse the visitors.

The relationship between message function and message hierarchy serves to create a foundation for the classification of and determination of basic sign types. The tables on the following pages illustrate this relationship for the exterior messages required for BOS.

#	Revision	Date

Message Hierarchy Relationships cont'd. 2.3.2

Figures 2.3.1 and 2.3.2 demonstrate the hierarchy in which the messages are organized when signing for roadways within the facility. The message hierarchy is used to assist designers in grouping messages for directional , identification, and information sign types. Primary messages should always be grouped with primary messages. If there is need for a secondary message on the same sign, its importance will always be secondary to all primary messages. The designer may have to place the secondary message on a secondary sign type. *Figure 2.3.2 shows an example of messaging on a 2 level directional sign.*

Roadway - Message Hierarchy

MESSAGE FUNCTION	PRIMARY	SECONDARY	TERTIARY
Directional	Departures Arrivals Parking Terminals Terminal A, B, C, D Rental Cars Return to Terminals Boston Mass Pike	Central Parking Terminal B Parking Airport Exit Economy Lot Worcester Revere Ted Williams Tunnel Summer Tunnel	Services Roads Hotels Gas Station CNG Station Fuel
Identification	Boston Logan International Airport Terminal A, B, C, D Central Parking Terminal B Parking Economy Lot	Airline Names	
Information or Orientation	Roadway Vertical Clearance		
Regulatory or Safety	No Parking No Parking Tow Zone No Parking Fire Lane No Parking Authorized Vehicles Only Access Parking EXIT	Emergency Exit Only ENTER DO NOT ENTER All FAA notices and required signs AUTHORIZED PERSONNEL ONLY	

Roadways - Message Hierarchy

Figure 2.3.1



Roadways - Message Hierarchy

FUNCTION	PRIMARY
Directional	Departures Arrivals Parking Terminals Terminal A, B, C, D Rental Cars Return to Terminals Boston Mass Pike

Roadways - Directional Primary Message Hierarchy Example
N . T . S .

Figure 2.3.2

#	Revision	Date

The arrow standards and applications portion of this document shall define the standards for arrow orientation, sizes, application and placement on directional signage at Boston-Logan International Airport (BOS).

Arrow symbols used as directional elements are more flexible and require less sign layout space than messages. Careful review of sign layouts must be done in order to produce proper proportioning between arrows, messages, symbols and sign panel dimensions *(See Arrow Placement Figure 2.4.4 for placement examples)*.

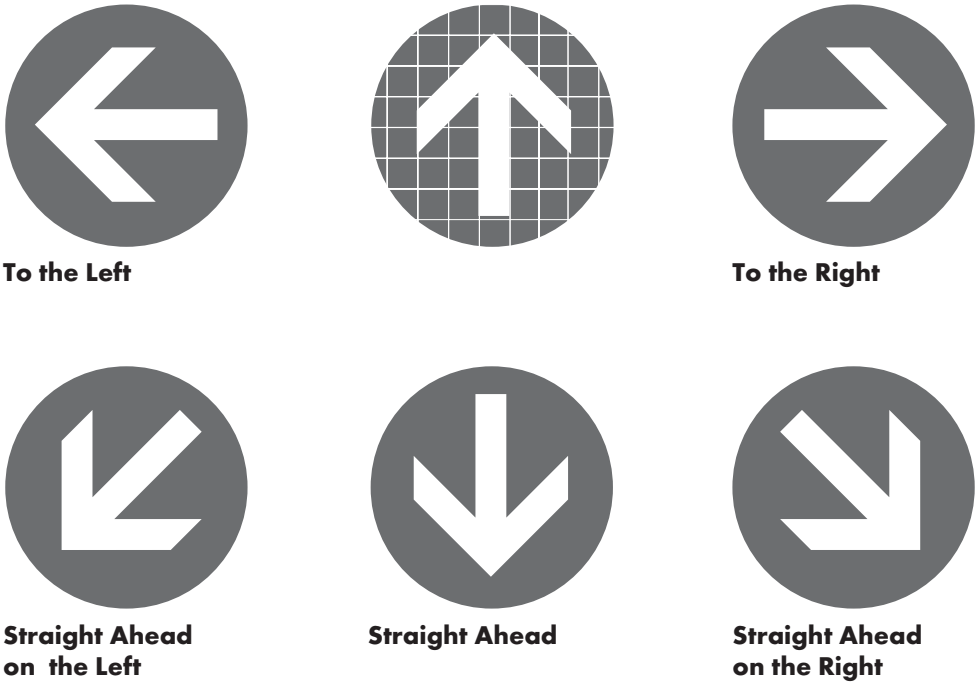
Arrow Orientations 2.4.1

The orientation and directional information that arrow symbols intend to convey is of equal importance to the consistent use of the recommended single style arrow. The arrow orientation to convey "straight ahead" is of particular interest. Either "up arrow" or the "down arrow" can be used for pedestrian specific traffic. However, vehicular specific traffic typically uses only the “down arrow” to convey “straight ahead” information. Once a method has been selected for the "straight ahead" arrow orientation, consistent application should be continued throughout the signage system. The following are a few guidelines for the use of arrows:

- The standard arrow can be rendered in eight (8) different orientations for pedestrian specific traffic and five (5) for vehicular specific traffic. No alternate orientations are acceptable, unless approved by Massport.
- Vehicular Signs: Arrow orientation should follow the guidelines provided in this section. Straight-ahead vehicular movement should be indicated by downward facing arrows, unless an upward facing arow can be shown to be clearly advantageous in a specific circumstance *(See figure 2.4.2)*.

#	Revision	Date

Arrow Orientations cont'd. 2.4.1



Vehicular Arrow Orientation
N.T.S.

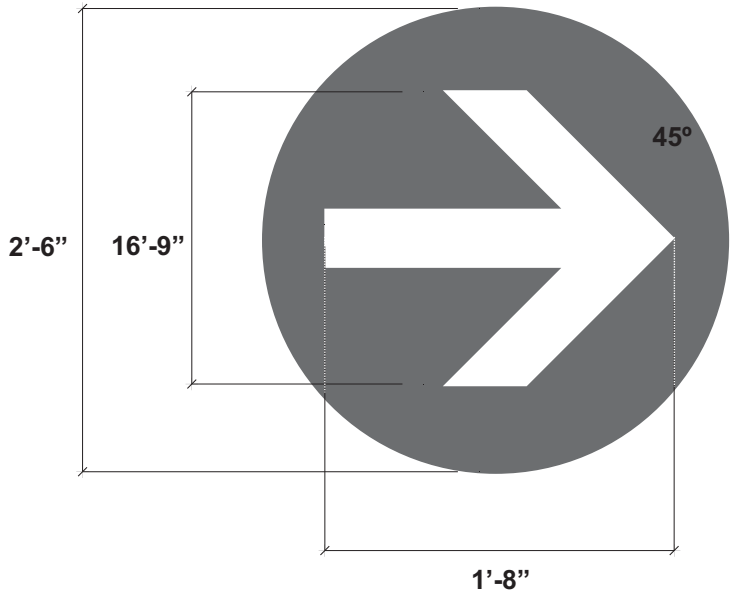
Figure 2.4.2

#	Revision	Date

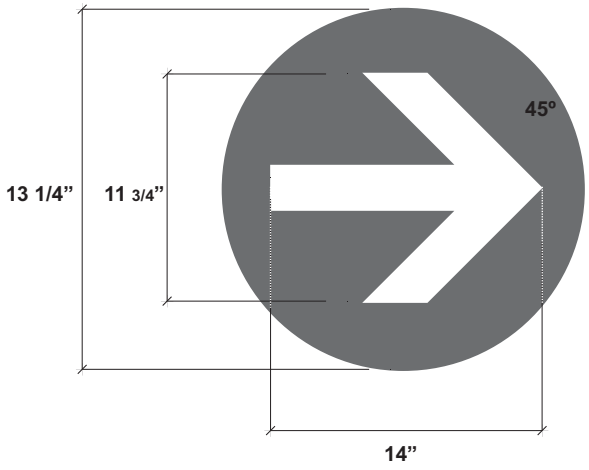
Arrow Sizes 2.4.2

These figures define the arrow sizes that shall be used throughout the roadways. All vehicular primary signs shall utilize a 10 ½" x 7 1/4" or 9" x 6 ½" arrow size depending on sign type *(See Section 3.5 for Sign Type Layouts)*. All vehicular secondary signs shall use a 6"x 5 1/4"arrow size.

Vehicular - Primary



Vehicular - Secondary

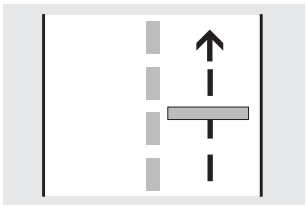
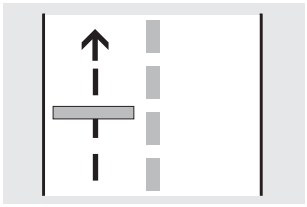
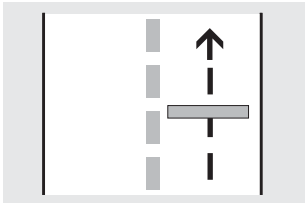
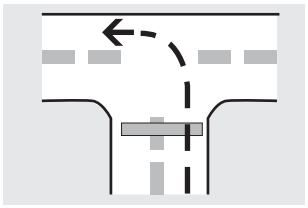
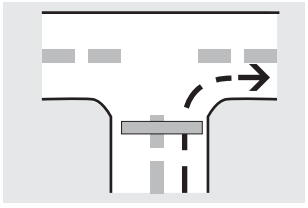


Arrow Sizes
N.T.S

Figure 2.4.2

#	Revision	Date

Arrow Application/Orientation cont'd. 2.4.3

APPLICATION/ ORIENTATION	LOCATION PLAN	INTERPRETATION
		Straight Ahead
		Ahead on Left
		Ahead on Right
		Left
		Right

Vehicular Arrow Application
N.T.S.

Figure 2.4.5

2.0 GRAPHIC STANDARDS

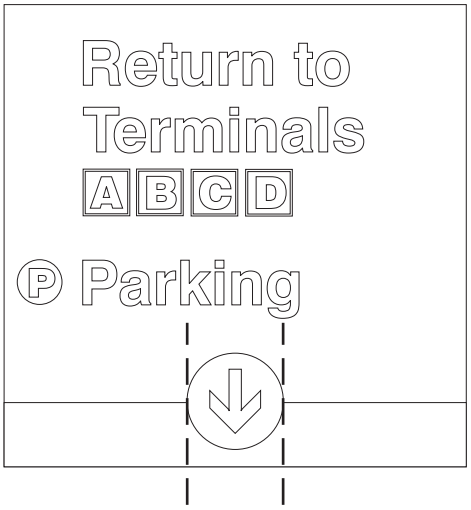
#	Revision	Date

Arrow Placement 2.4.4

The placement of arrows on sign faces should conform to the standard guidelines provided. Arrows may not be positioned in any other location on the sign face.

The following are placement guidelines and restrictions:

- Arrows should NOT point into text.
- Left-facing arrows should be located on the left side of signs, and right-facing arrows should be located on the right side of signs.
- Upward-facing arrows are normally located closest to the flow of traffic.



* See Sign Type Index - Section 3.4 for arrow location dimensions

Arrow Placement
N.T.S.

Figure 2.4.6

#	Revision	Date

This section of the document shall specify colors and applications that are to be used in the roadways areas.

Color Specifications 2.5.1

Sign Color System - Roadways

Color Application	Color	Pantone Equivalent	Vinyl Equivalent	Paint Equivalent
Sign Face	Black	*Process Black*	*3M Black Opaque* Film #7725-12*	*MAP Paint* 41-335 Black Anodic*
Text	White	*White*	*3M Translucent White* Film #3630-20*	*MAP Paint* 42-202 Natural White*
Arrows International Symbols	White	*White*	*3M Translucent White* Film #3630-20*	*MAP Paint* 42-202 Natural White*
Terminal Identification Terminal A	Blue	*PMS 300*	*3M Translucent Intense Blue # 230/230-127*	*3M# 220/225-47 Intense Blue*
Terminal B	Red	*PMS 186*	*3M Translucent Red # 230/230-33*	*3M# 220/225-13 Tomato Red*
Terminal C	Green	*PMS 336*	*3M Translucent Green # 230/230-26*	*3M# 220/225-186 Bright Green*
Terminal D	Purple	*PMS 2593*	*3M Dark Violet # 220-98*	*3M# Color to match PMS 2593c*
Parking Identification	Blue	*Color to match PMS 294C*	*3M Vivid Blue* Film # 220-17*	*Color to match PMS 294C*
Neutral Identification	70% Black	*Color to match 70% Process Black*	*3M Opaque Film (Dark Gray) #7725-41*	*MAP Paint* to match 70% Process Black*
Sign Headers	Aluminum Finish	*N/A*	*N/A*	*N/A*

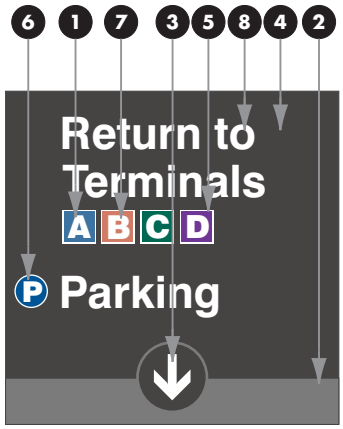
*or approved equal

Color Specification
N.T.S.

Figure 2.5.1

#	Revision	Date

Color Application 2.5.2



Sign Color Application - Parking

Color Application	Color
1 Color	
Terminal A	Blue
Terminal B	Red
Terminal C	Green
Terminal D	Purple
2 Arrow Background	70% Black
3 Arrows	White
4 Sign Face	Black
5 Symbol Frame	White
6 Parking Symbol Background	Blue
7 Symbol Image	White
8 Text	White

Color Application Examples
N.T.S.

Figure 2.5.2

#	Revision	Date

Identification System 3.1.1

Series 100 - Terminals

Sign No.	Description
101 - 150	Directional
151 - 180	Identification
181 - 199	Informational

Series 200 - Curbside

Sign No.	Description
201 - 250	Directional
251 - 280	Identification
281 - 299	Informational

Series 300 - Parking

Sign No.	Description
301 - 350	Directional
351 - 380	Identification
381 - 399	Informational

Series 400 - Roadways

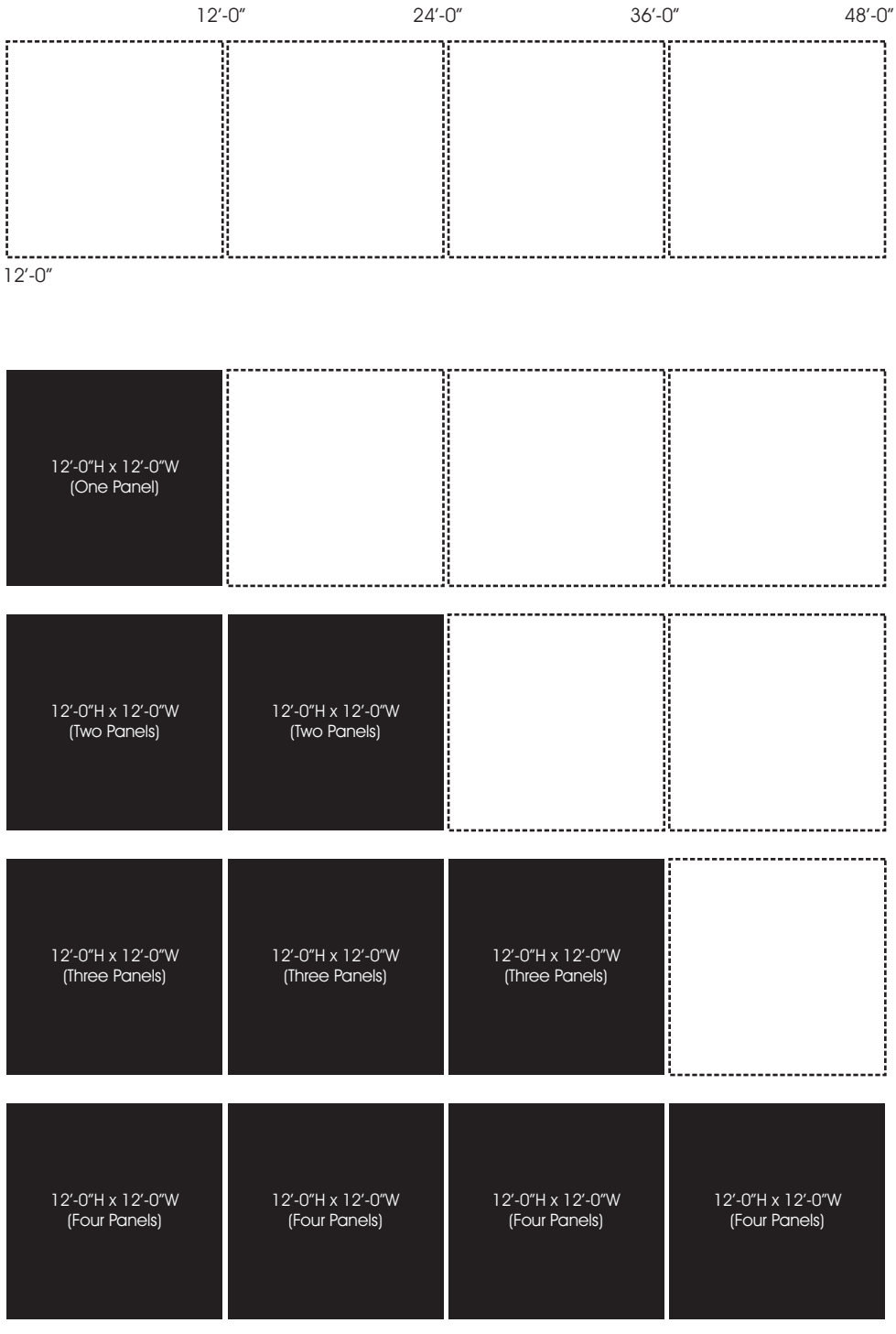
Sign No.	Description
401 - 450	Directional
451 - 480	Identification
481 - 499	Informational

Series 500 - Airport Services Buildings

Sign No.	Description
501 - 550	Directional
551 - 580	Identification
581 - 599	Informational

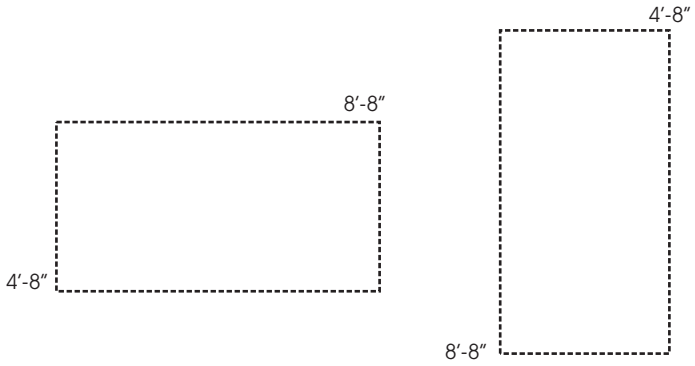
#	Revision	Date

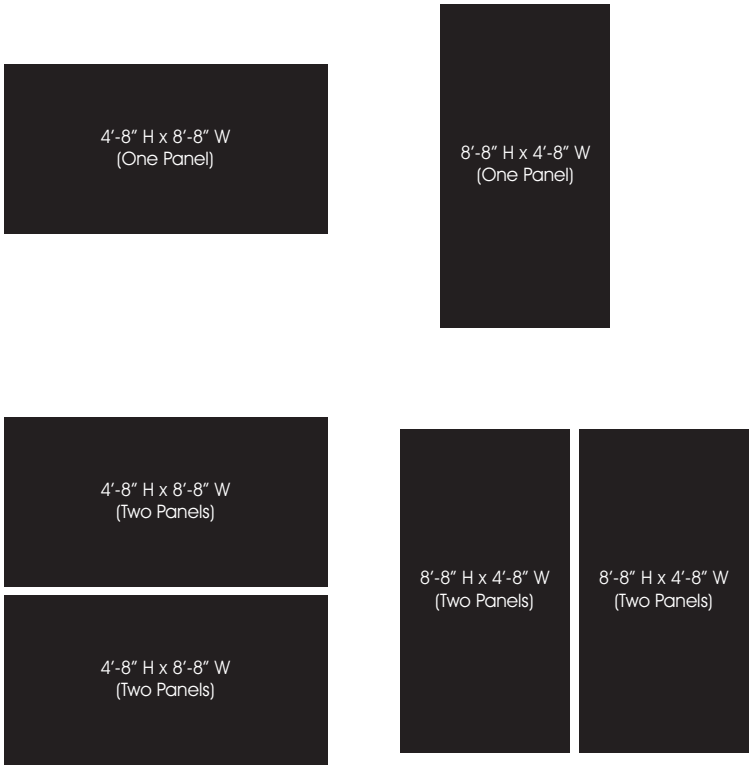
Directional - Primary 3.2.1



#	Revision	Date

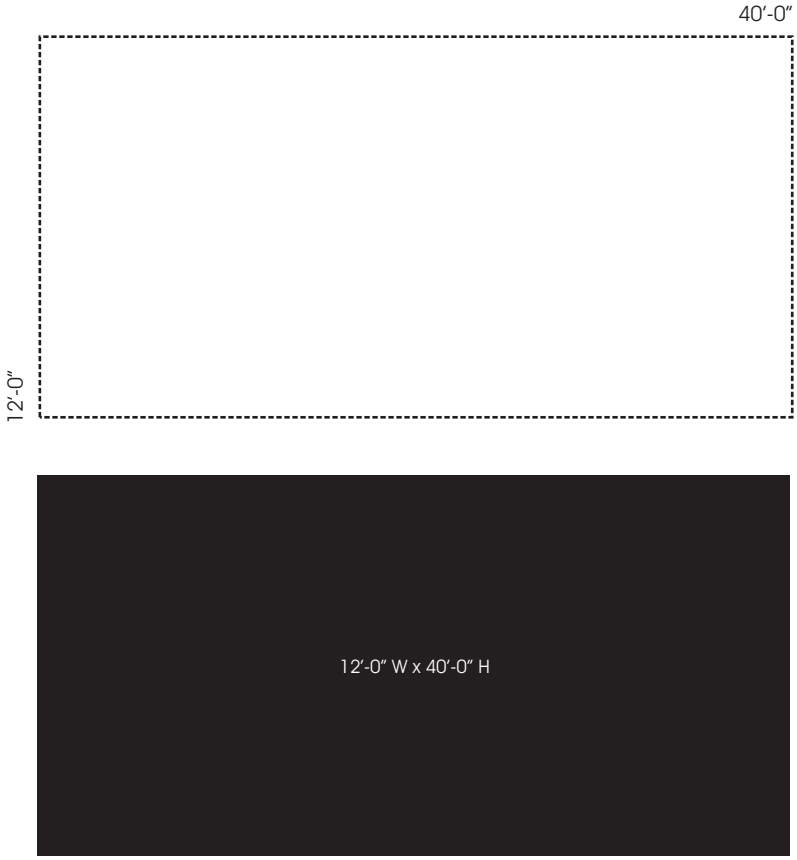
Directional - Secondary 3.2.2





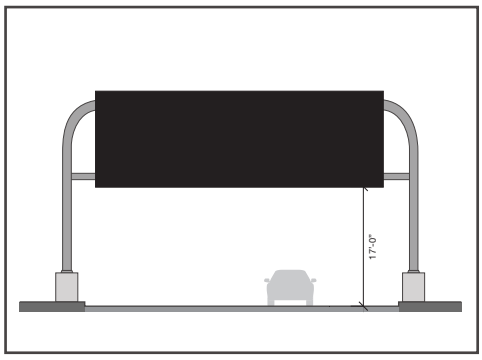
#	Revision	Date

Identification - Primary 3.2.3

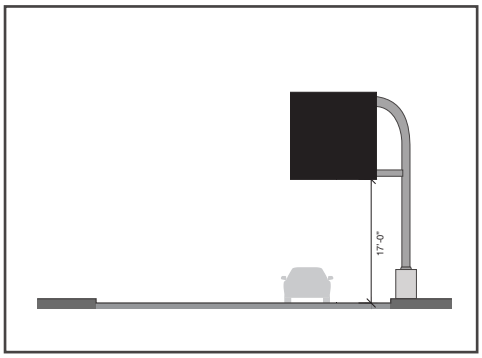


#	Revision	Date

Directional - Primary 3.3.1

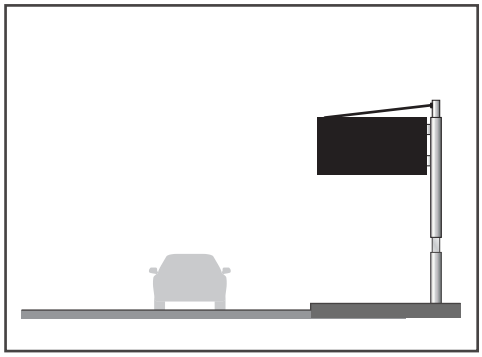


OVERHEAD MOUNTED



CANTILEVER MOUNTED

Directional - Secondary 3.3.2

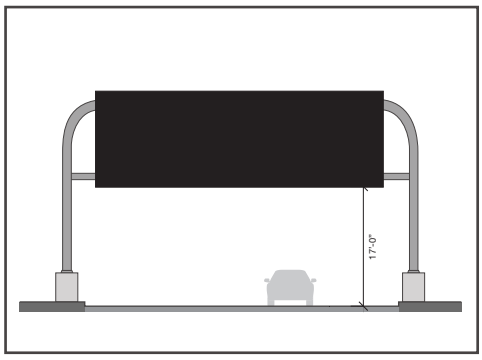


POST MOUNTED

3.0 SIGN TYPES - ROADWAYS

#	Revision	Date

Identification - Primary 3.3.3



OVERHEAD MOUNTED

#	Revision	Date

Directional - Primary 3.4.1

Overhead Mounted

ST - 401



- Description: Overhead directional.
- Overall Dimensions: 36'-0"L x 12'-0"H x 1/8"D
- Roadways perpendicular to vehicular traffic.
- Externally Illuminated
- 14" Primary Cap Ht / 12" Secondary Cap Ht
- 1'-8" Arrow Size

Overhead Mounted

ST - 402



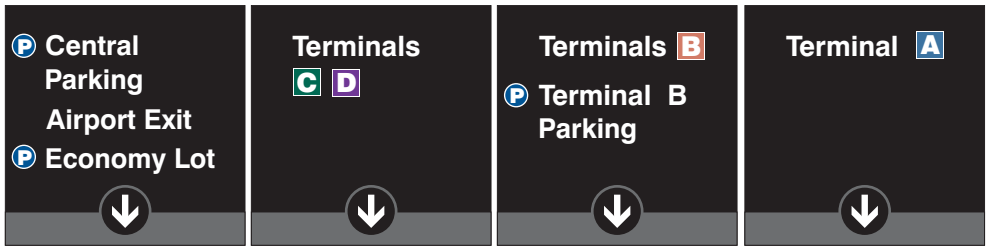
- Description: Overhead directional.
- Overall Dimensions: 36'-0"L x 12'-0"H x 1/8"D
- Roadways perpendicular to vehicular traffic.
- Externally Illuminated
- 14" Primary Cap Ht
- 1'-8" Arrow Size

#	Revision	Date

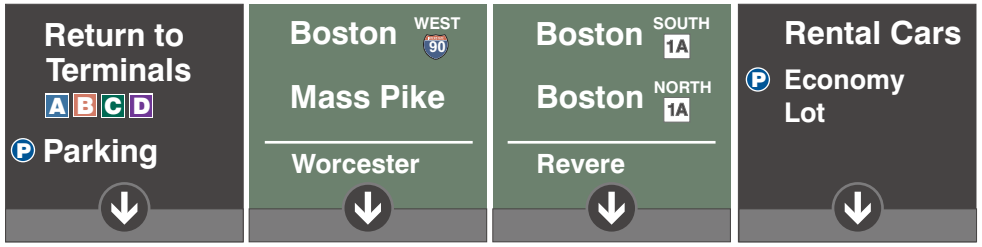
Directional - Primary con't. 3.4.1

Overhead Mounted

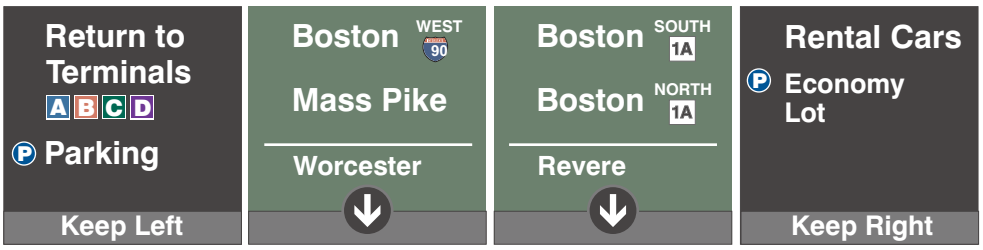
ST - 403



Entering



Exiting - A



Exiting - B

- Description: Overhead directional - 4 panels.
- Overall Dimensions: 49'-0"L x 12'-0"H x 1/8"D
- Roadways perpendicular to vehicular traffic.
- Externally Illuminated
- 14" Primary Cap Ht / 12" Secondary Cap Ht
- 1'-8" Arrow Size
- 1'-2" Primary Symbol Size / 1'-0" Secondary Symbol Size

#	Revision	Date

Directional - Primary con't. 3.4.1

Overhead Mounted

ST - 404



Entering



Exiting - A



Exiting - B

- Description: Overhead directional - 3 panels.
- Overall Dimensions: 36'-6"L x 12'-0"H x 1/8"D
- Roadways perpendicular to vehicular traffic.
- Externally Illuminated
- 14" Primary Cap Ht / 12" Secondary Cap Ht
- 1'-8" Arrow Size
- 1'-2" Primary Symbol Size / 1'-0" Secondary Symbol Size
- 1' -2" Terminal Icon

#	Revision	Date

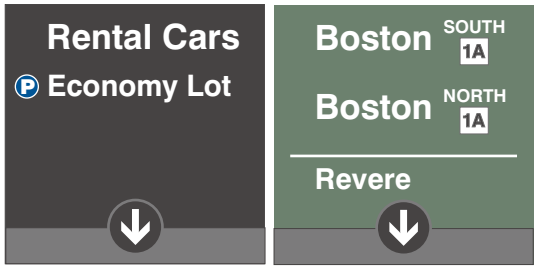
Directional - Primary con't. 3.4.1

Overhead Mounted

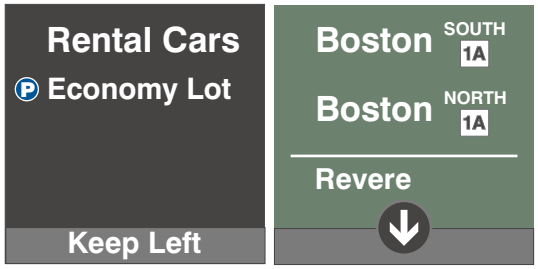
ST - 405



Entering



Exiting - A



Exiting - B

- Description: Overhead directional - 2 panels.
- Overall Dimensions: 24'-4"L x 12'-0"H x 1/8"D
- Roadways perpendicular to vehicular traffic.
- Externally Illuminated
- 14" Primary Cap Ht / 12" Secondary Cap Ht
- 1'-8" Arrow Size
- 1'-2" Primary Symbol Size / 1'-0" Secondary Symbol Size

#	Revision	Date

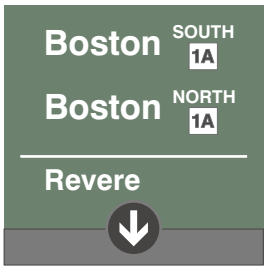
Directional - Primary con't. 3.4.1

Overhead Mounted

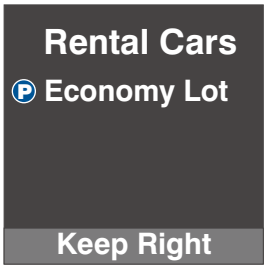
ST - 406



Entering



Exiting - A



Exiting - B

- Description: Overhead directional - 1 panel.
- Overall Dimensions: 12'-0"L x 12'-0"H x 1/8"D
- Roadways perpendicular to vehicular traffic.
- Externally Illuminated
- 14" Primary Cap Ht / 12" Secondary Cap Ht
- 1'-8" Arrow Size
- 1'-2" Primary Symbol Size / 1" Secondary Symbol Size

#	Revision	Date

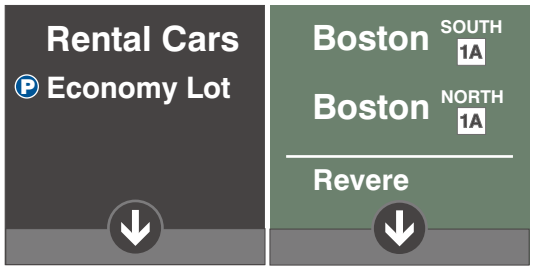
Directional - Primary con't. 3.4.1

Cantilever Mounted

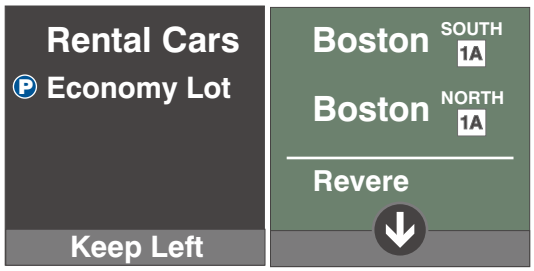
ST - 407



Entering



Exiting - A



Exiting - B

- Description: Cantilever directional - 2 panels.
- Overall Dimensions: 24'-4"L x 12'-0"H x 1/8"D
- Roadways perpendicular to vehicular traffic.
- Externally Illuminated
- 14" Primary Cap Ht / 12" Secondary Cap Ht
- 1'-8" Arrow Size
- 1'-2" Primary Symbol Size / 1'-0" Secondary Symbol Size

#	Revision	Date

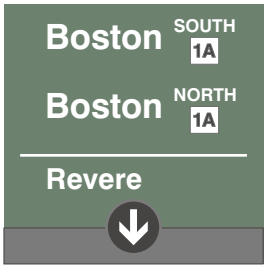
Directional - Primary con't. 3.4.1

Cantilever Mounted

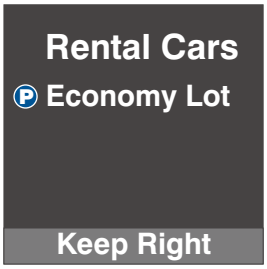
ST - 408



Entering



Exiting - A



Exiting - B

- Description: Cantilever directional - 1 panel.
- Overall Dimensions: 12'-0"L x 12'-0"H x 1/8"D
- Roadways perpendicular to vehicular traffic.
- Externally Illuminated
- 14" Primary Cap Ht / 12" Secondary Cap Ht
- 1'-8" Arrow Size
- 1'-2" Primary Symbol Size / 1'-0" Secondary Symbol Size

#	Revision	Date

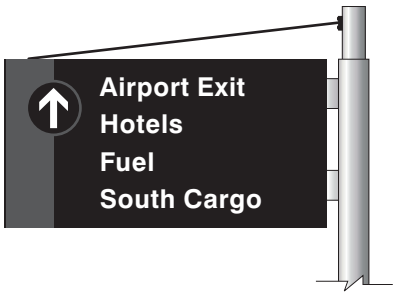
Directional - Secondary 3.4.2

Post Mounted **ST - 410**



- Description: Roadside directional - 1 panel.
- Overall Dimensions: 8'-8"L x 4'-8"H x 1/8"D
- Roadside perpendicular to vehicular traffic.
- Non Illuminated
- 6" Primary Cap Ht
- 0'-10" Arrow Size

Ceiling Mounted **ST - 411**



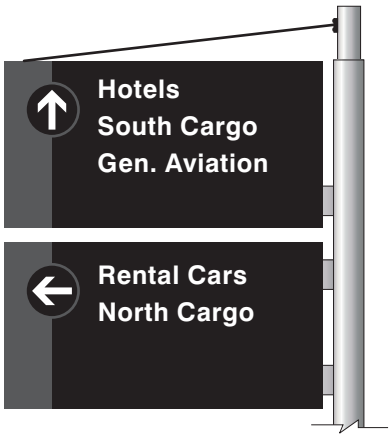
- Description: Roadside directional - 1 panel.
- Overall Dimensions: 8'-8"L x 4'-8"H x 1/8"D
- Roadside perpendicular to vehicular traffic.
- Non Illuminated
- 6" Primary Cap Ht
- 0'-10" Arrow Size

#	Revision	Date

Directional - Secondary con't. 3.4.2

Post Mounted

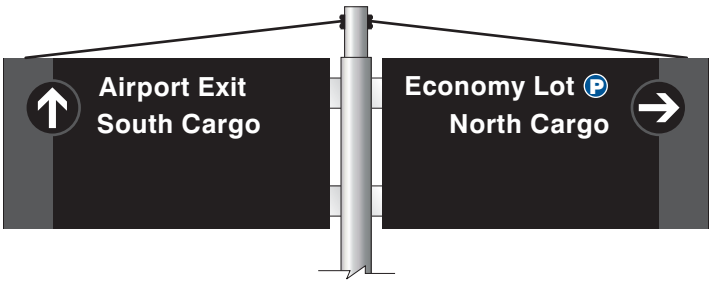
ST - 412



- Description: Roadside directional - 2 panels.
- Overall Dimensions: 8'-8"L x 4'-8"H x 6"D (Each Panel)
- Roadside perpendicular to vehicular traffic.
- Non Illuminated
- 6" Primary Cap Ht
- 0'-10" Arrow Size

Ceiling Mounted

ST - 413



- Description: Roadside directional - 2 panels.
- Overall Dimensions: 8'-8"L x 4'-8"H x 1/8"D (Each Panel)
- Roadside perpendicular to vehicular traffic.
- Non Illuminated
- 6" Primary Cap Ht
- 0'-10" Arrow Size

#	Revision	Date

Identification - Primary 3.4.2

Overhead Mounted

ST - 451



- Description: Overhead Airline Listing
- Overall Dimensions: 40'-0"L x 12'-0"H x 1/8"D
- Roadways perpendicular to vehicular traffic.
- Externally Illuminated
- 9.5" Primary Cap Ht
- 4'- 6" Letter symbol

Identification - Secondary 3.4.2

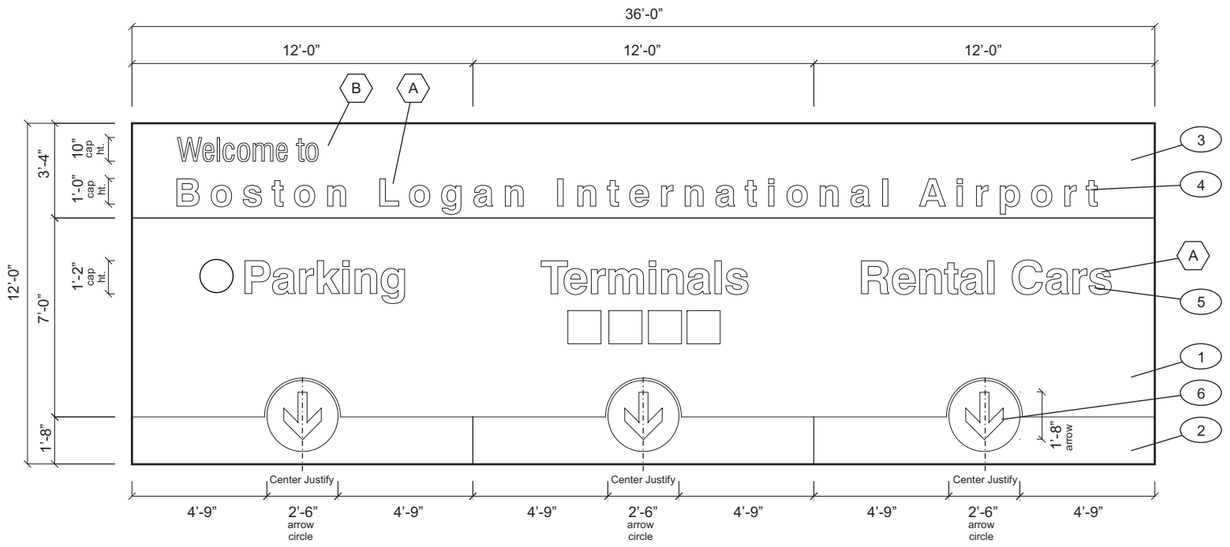
Pylon

ST - 452



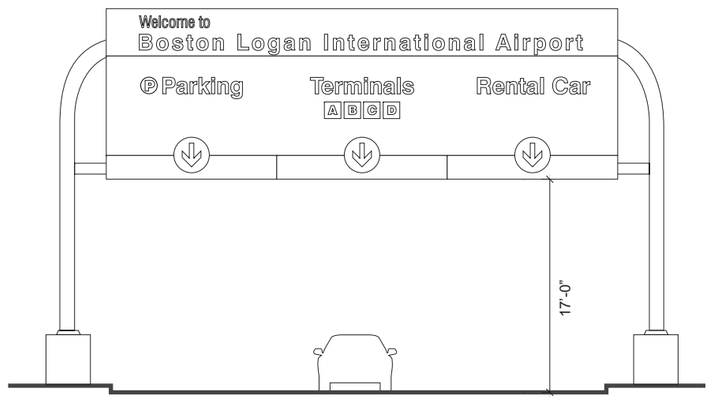
- Description: Roadways / Curbside Airline Listings.
- Overall Dimensions: 8'-0"L x 16'-0"H x 15"D
- Curbside entrance perpendicular to vehicular traffic.
- 8" Primary Cap Ht
- 2'- 0" Terminal Icon
- 6" VMS Cap Ht

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/16"=1'-0"



ELEVATION

Scale: N.T.S.

Directional - Overhead ST - 401

DESCRIPTION: Overhead directional.

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Condensed BT Bold

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: Paint Matthew's #78A-1A Jet Black
2. Band: 3M Opaque Film (Dark Gray) #7725-41
3. Header: Brushed Aluminum
4. Text: 3M reflective film #680-85 (black)
5. Text: 3M reflective film #3990 (white)
6. Arrow: 3M reflective film #3990 (white)

GRAPHICS: N/A

ARROWS: N/A

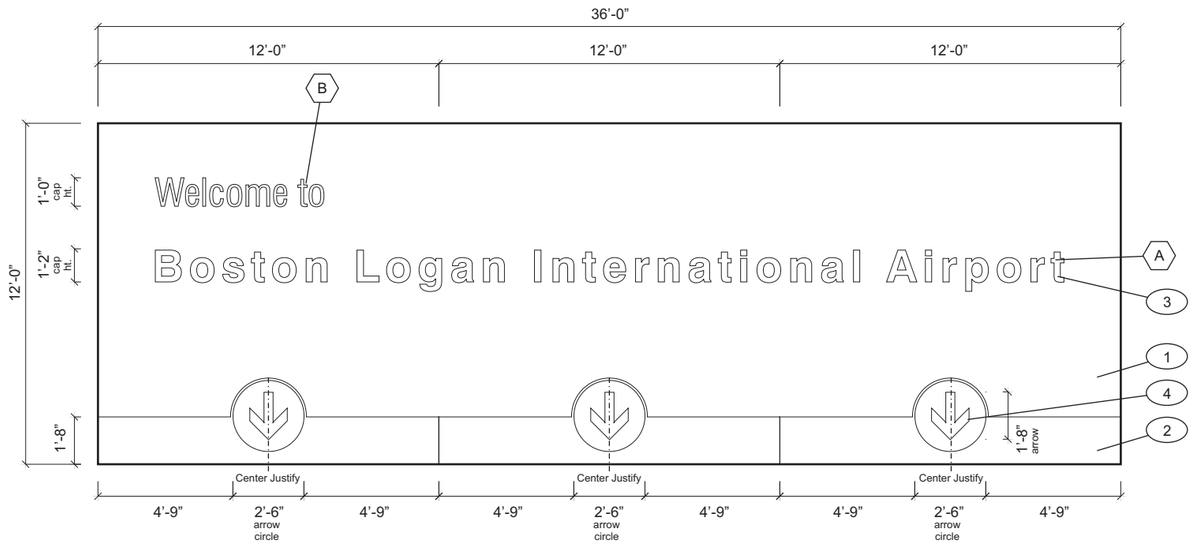
MOUNTING: Overhead directional.

ILLUMINATION: Sign will be Externally Illuminated.

Note: See page 3-38 for attachment methods.

NOTE: Please refer to following pages for alternate layouts.

#	Revision	Date



SIGN FACE LAYOUT - ALTERNATE LAYOUT

Scale: 3/16"=1'-0"



ELEVATION

Scale: N.T.S.

Directional - Overhead ST - 402

DESCRIPTION: Overhead directional.

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 Condensed BT Bold
- B Swiss721 Condensed BT Bold

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: Paint Matthew's #78A-1A Jet Black
- 2 Band: 3M Opaque Film (Dark Gray) #7725-41
- 3 Text: 3M reflective film #3990 (white)
- 4 Arrow: 3M reflective film #3990 (white)

GRAPHICS: N/A

ARROWS: N/A

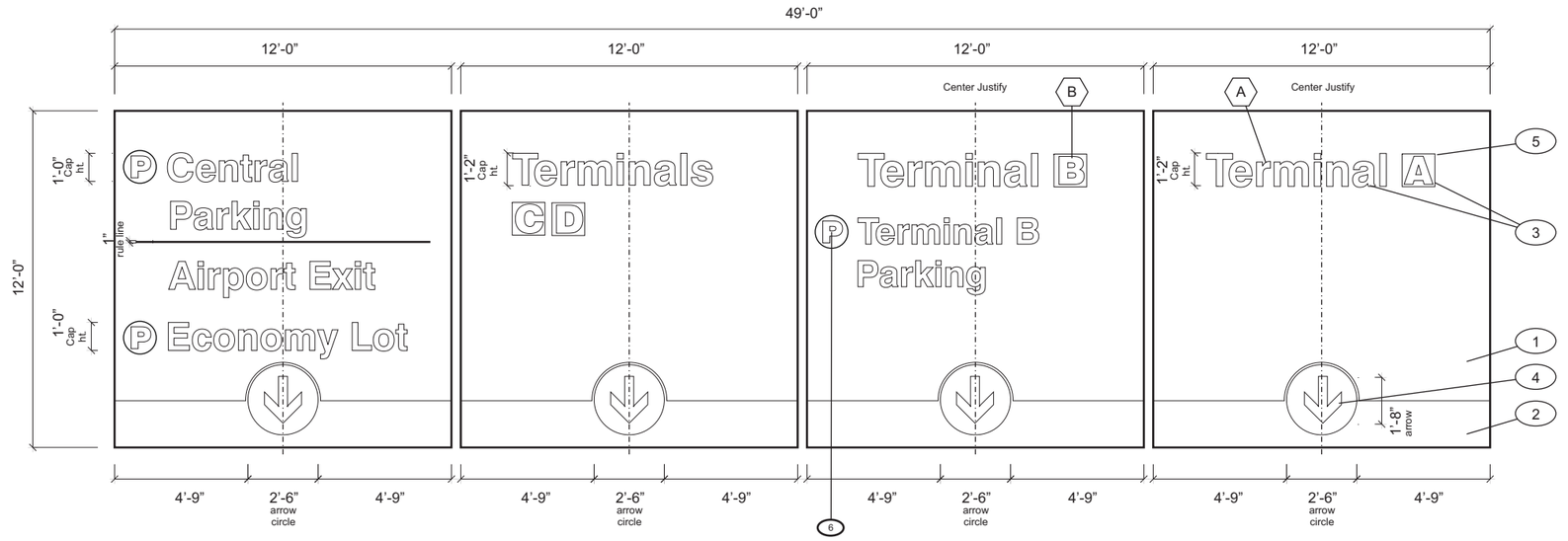
MOUNTING: Overhead directional.

ILLUMINATION: Sign will be Externally Illuminated.

REMARKS: For final submittal materials, colors, and text will be called out in the layouts.

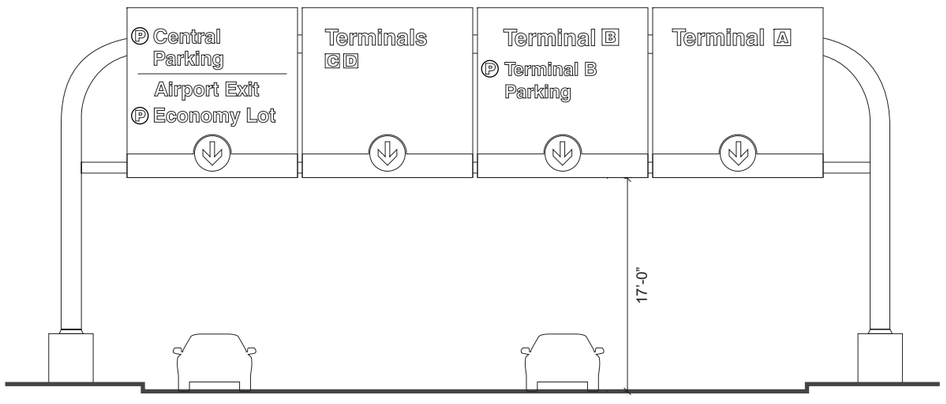
Note: See page 3-38 for attachment methods.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/16"=1'-0"



ELEVATION

Scale: N.T.S.

Note: See page 3-38 for attachment methods.

Directional - Overhead ST - 403

DESCRIPTION: Overhead directional - 4 panels

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: Paint Matthew's #78A-1A Jet Black
- 2 Band: 3M Opaque Film (Dark Gray) #7725-41
- 3 Text: 3M reflective film #3990 (white)
- 4 Arrow: 3M reflective film #3990 (white)
- 5 Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 6 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 20"

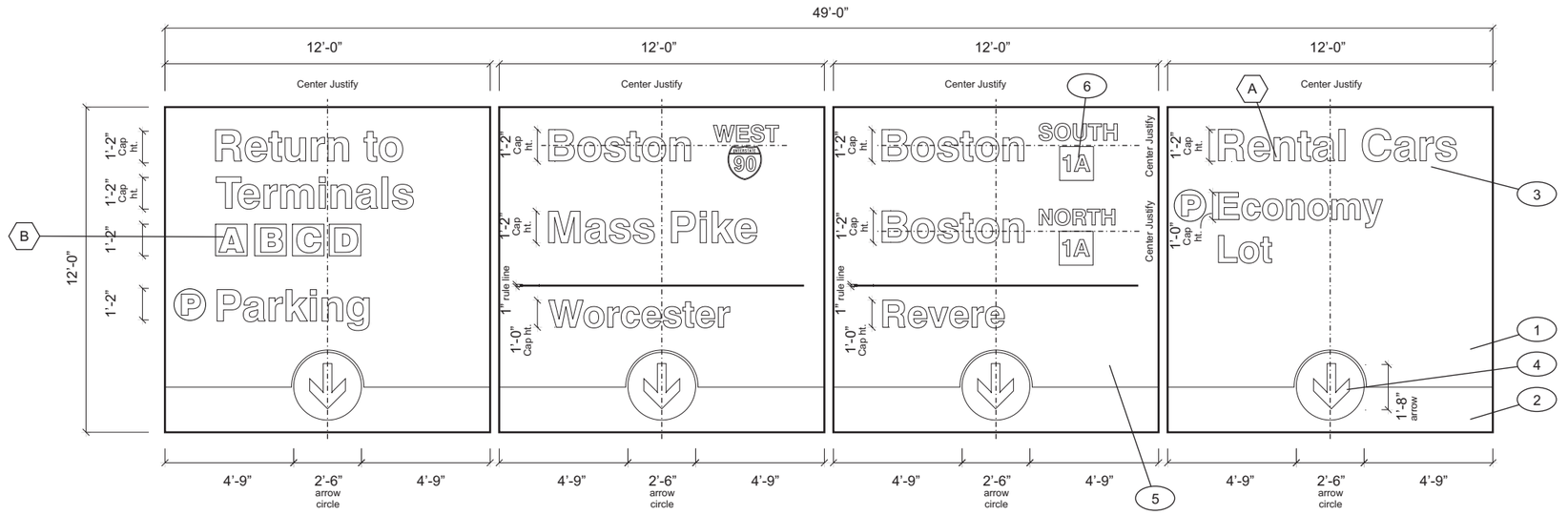
MOUNTING: Overhead directional.

ILLUMINATION: Sign will be Externally Illuminated.

NOTE: Please refer to following pages for alternate layouts.

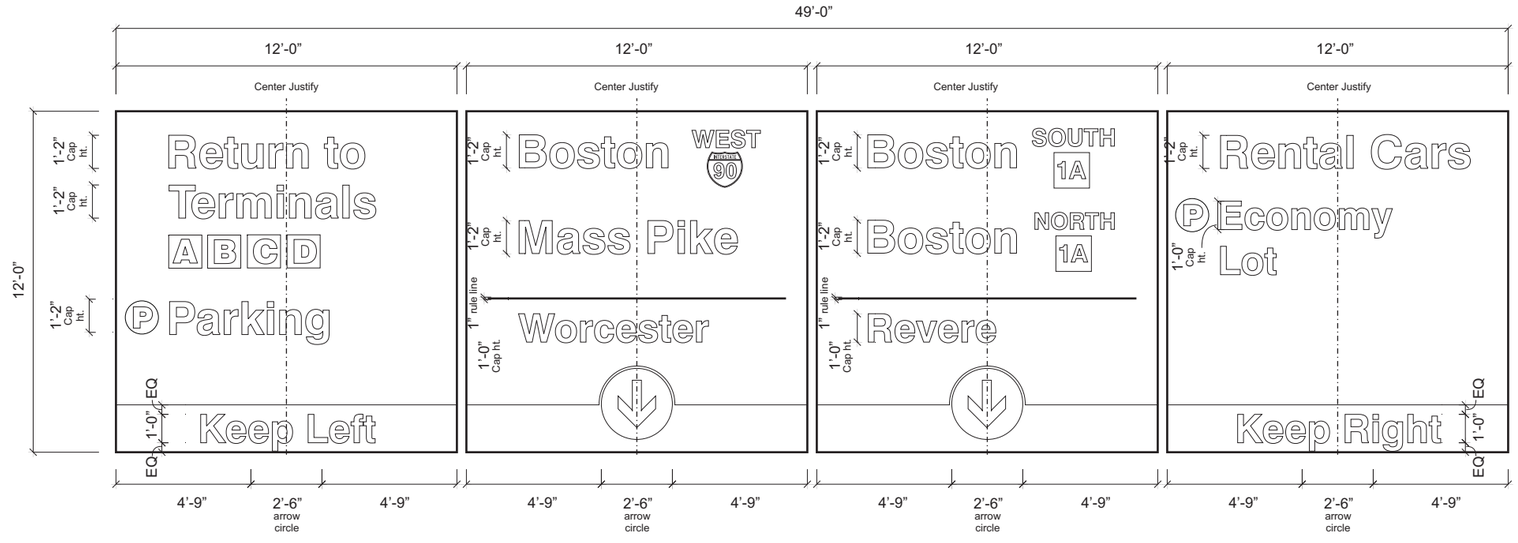
Directional Signs - Primary 3.5.1

#	Revision	Date



SIGN FACE ALTERNATE LAYOUT - A

Scale: 3/16"=1'-0"



SIGN FACE ALTERNATE LAYOUT - B

Scale: 3/16"=1'-0"

Directional - Overhead ST - 403

DESCRIPTION: Overhead directional - 4 panels

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: Paint Matthew's #78A-1A Jet Black
- 2 Band: 3M Opaque Film (Dark Gray) #7725-41
- 3 Text: 3M reflective film #3990 (white)
- 4 Arrow: 3M reflective film #3990 (white)
- 5 Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 6 Parking P 3M Vivid Blue Film # 220-17

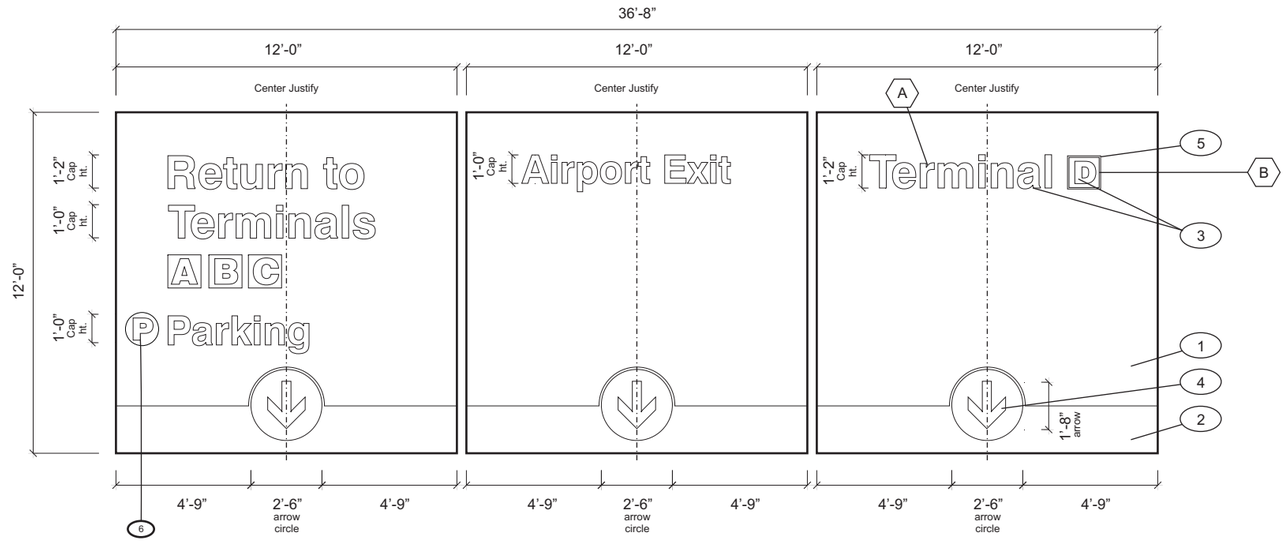
GRAPHICS: N/A

ARROWS: 20"

MOUNTING: Overhead directional.

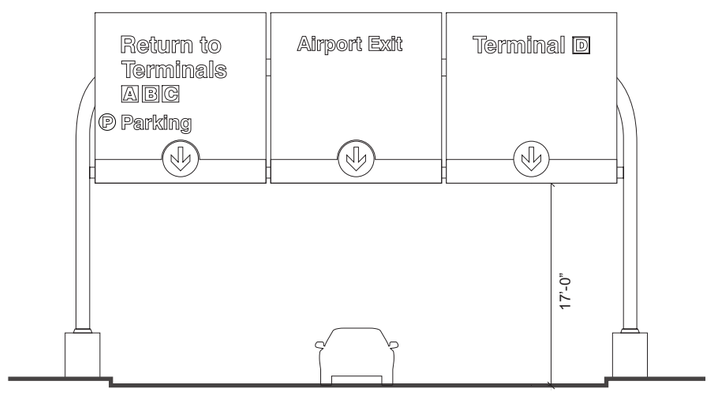
ILLUMINATION: Sign will be Externally Illuminated.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/16"=1'-0"



ELEVATION

Scale: N.T.S.

Note: See page 3-38 for attachment methods.

Directional - Overhead ST - 404

DESCRIPTION: Overhead directional - 4 panels

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: Paint Matthew's #78A-1A Jet Black
- 2 Band: 3M Opaque Film (Dark Gray) #7725-41
- 3 Text: 3M reflective film #3990 (white)
- 4 Arrow: 3M reflective film #3990 (white)
- 5 Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 6 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

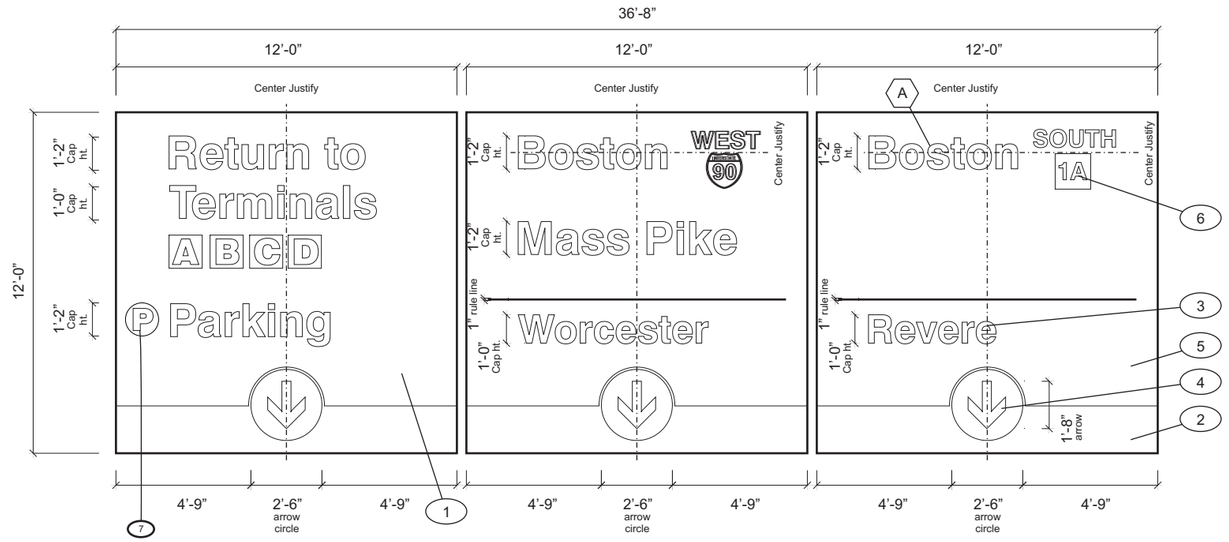
ARROWS: 20"

MOUNTING: Overhead directional.

ILLUMINATION: Sign will be Externally Illuminated.

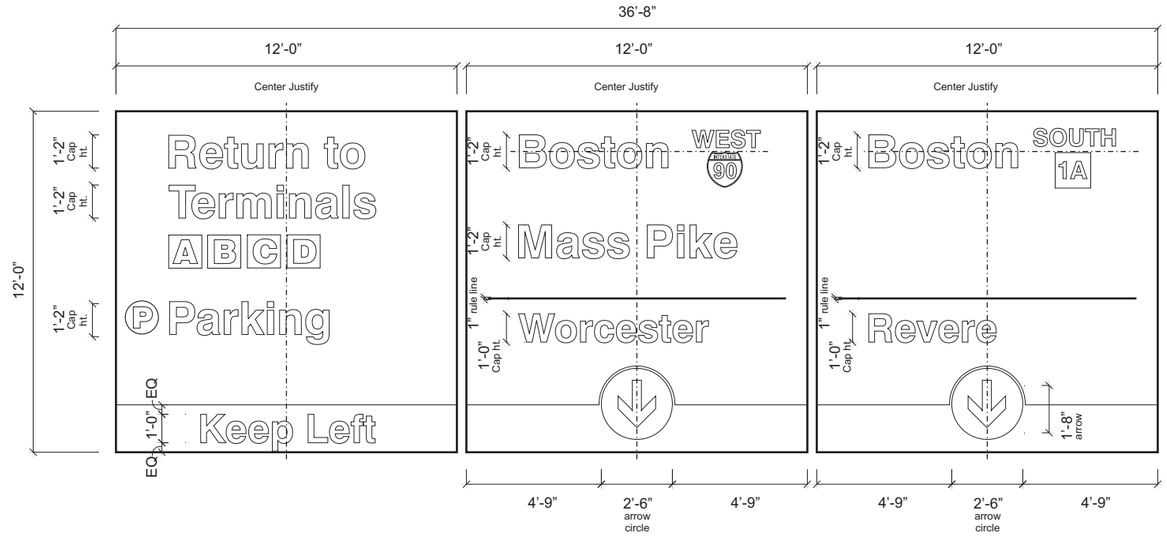
NOTE: Please refer to following pages for alternate layouts.

#	Revision	Date



SIGN FACE ALTERNATE LAYOUT - A

Scale: 3/16"=1'-0"



SIGN FACE ALTERNATE LAYOUT - B

Scale: 3/16"=1'-0"

Directional - Overhead ST - 404

DESCRIPTION: Overhead directional - 3 panels

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: Paint Matthew's #78A-1A Jet Black
- 2 Band: 3M Opaque Film (Dark Gray) #7725-41
- 3 Text: 3M reflective film #3990 (white)
- 4 Arrow: 3M reflective film #3990 (white)
- 5 Background : Paint to match Boston DOT
- 6 Text: 3M reflective film #680-85 (black)
- 7 Parking P 3M Vivid Blue Film # 220-17
- 8 Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)

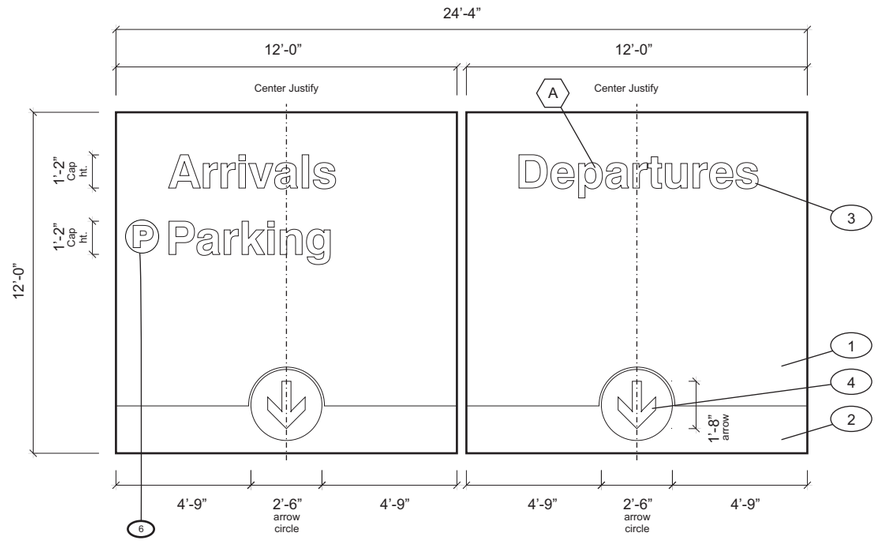
GRAPHICS: N/A

ARROWS: 20"

MOUNTING: Overhead directional.

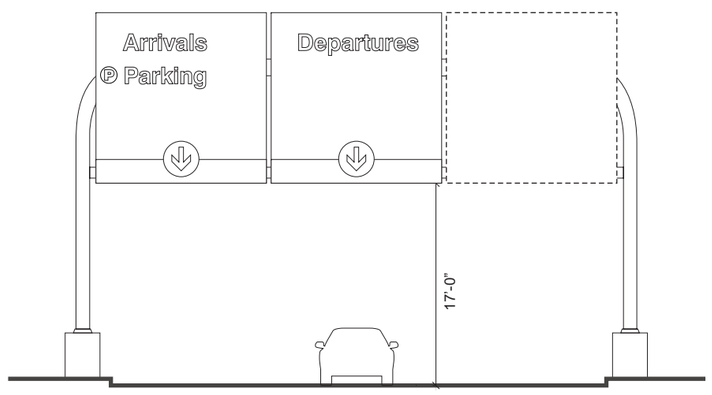
ILLUMINATION: Sign will be Externally Illuminated.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/16"=1'-0"



ELEVATION

Scale: N.T.S.

Directional - Overhead ST - 405

DESCRIPTION: Overhead directional - 4 panels

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: Paint Matthew's #78A-1A Jet Black
- 2 Band: 3M Opaque Film (Dark Gray) #7725-41
- 3 Text: 3M reflective film #3990 (white)
- 4 Arrow: 3M reflective film #3990 (white)
- 5 Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 6 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 20"

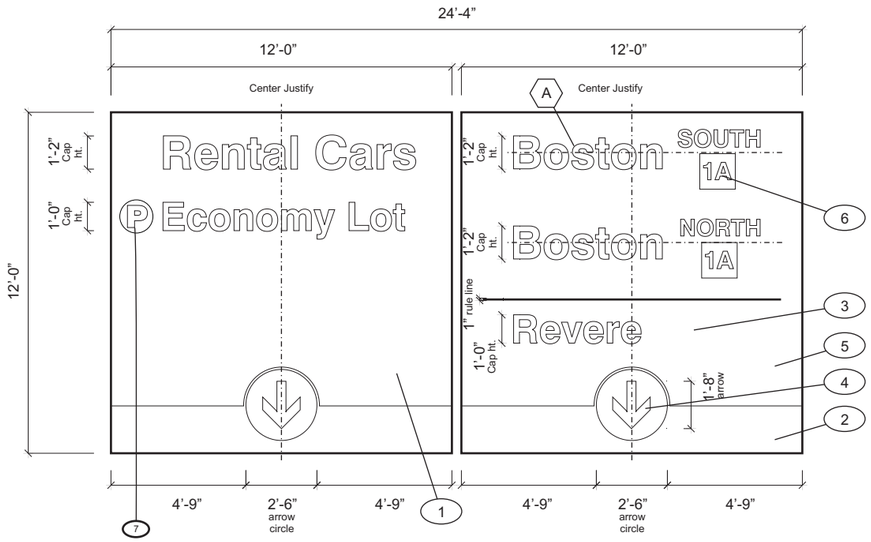
MOUNTING: Overhead directional.

ILLUMINATION: Sign will be Externally Illuminated.

Note: See page 3-38 for attachment methods.

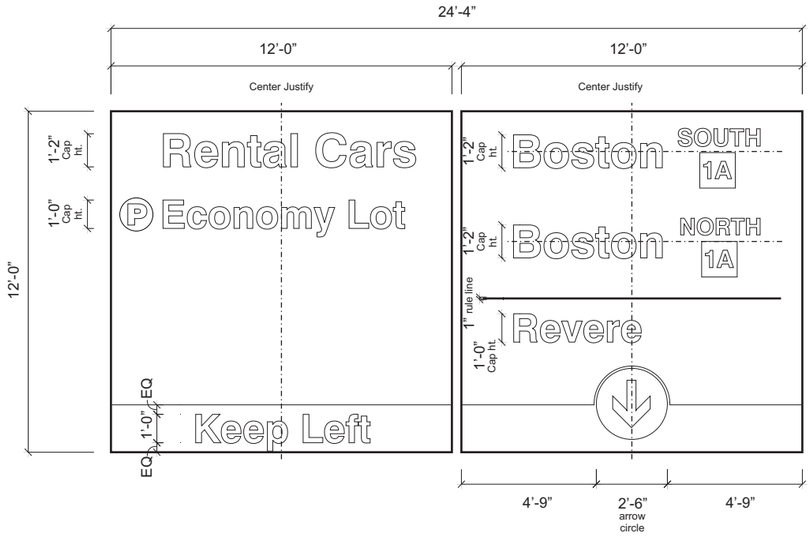
NOTE: Please refer to following pages for alternate layouts.

#	Revision	Date



SIGN FACE ALTERNATE LAYOUT - A

Scale: 3/16"=1'-0"



SIGN FACE ALTERNATE LAYOUT - B

Scale: 3/16"=1'-0"

Directional - Overhead ST - 405

DESCRIPTION: Overhead directional - 3 panels

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: Paint Matthew's #78A-1A Jet Black
- 2 Band: 3M Opaque Film (Dark Gray) #7725-41
- 3 Text: 3M reflective film #3990 (white)
- 4 Arrow: 3M reflective film #3990 (white)
- 5 Background : Paint to match Boston DOT
- 6 Text: 3M reflective film #680-85 (black)
- 7 Parking P 3M Vivid Blue Film # 220-17
- 8 Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)

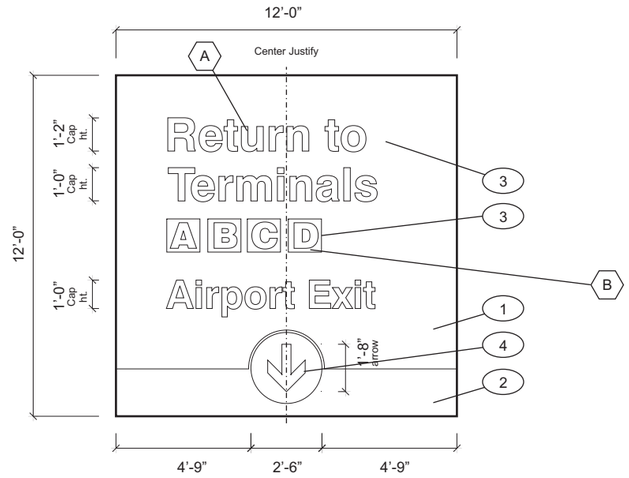
GRAPHICS: N/A

ARROWS: 20"

MOUNTING: Overhead directional.

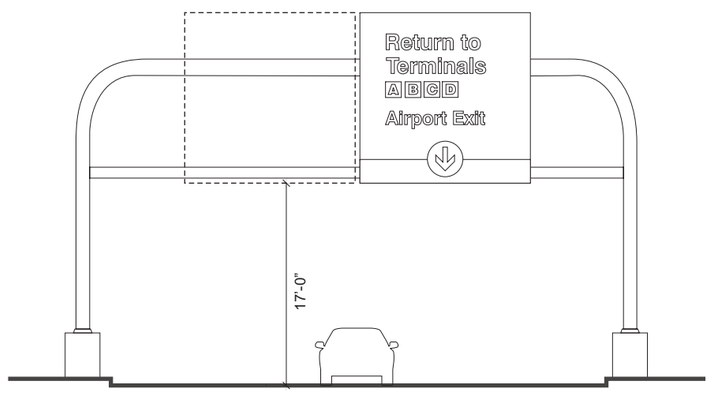
ILLUMINATION: Sign will be Externally Illuminated.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/16"=1'-0"



ELEVATION

Scale: N.T.S.

Directional - Overhead ST - 406

DESCRIPTION: Overhead directional - 4 panels

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: Paint Matthew's #78A-1A Jet Black
- 2 Band: 3M Opaque Film (Dark Gray) #7725-41
- 3 Text: 3M reflective film #3990 (white)
- 4 Arrow: 3M reflective film #3990 (white)
- 5 Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 6 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 20"

MOUNTING: Overhead directional.

ILLUMINATION: Sign will be Externally Illuminated.

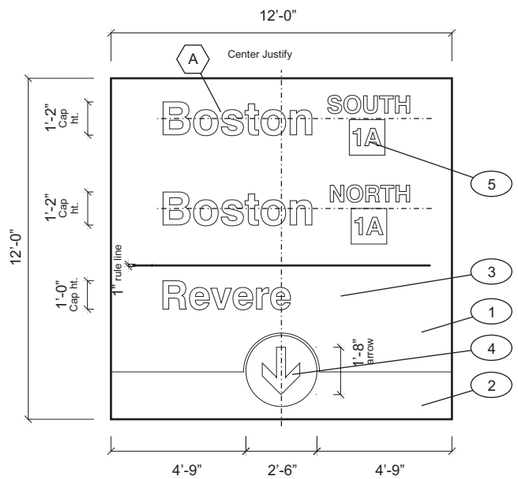
REMARKS: For final submittal materials, colors, and text will be called out in the layouts.

Note: See page 3-38 for attachment methods.

NOTE: Please refer to following pages for alternate layouts.

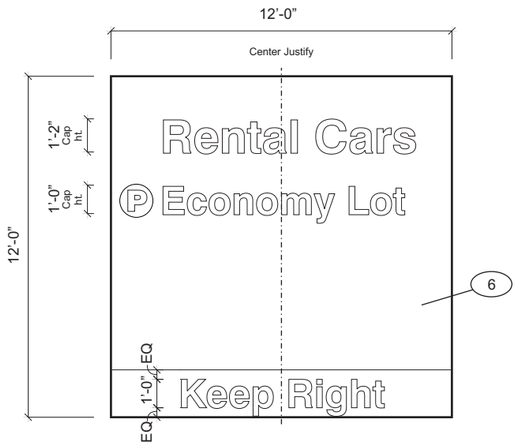
Directional Signs - Primary 3.5.1

#	Revision	Date



SIGN FACE ALTERNATE LAYOUT - A

Scale: 3/16"=1'-0"



SIGN FACE ALTERNATE LAYOUT - B

Scale: 3/16"=1'-0"

Directional - Overhead ST - 406

DESCRIPTION: Overhead directional - 1 panel

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background : Paint to match Boston DOT
- 2 Band: P3M Opaque Film (Dark Gray) #7725-41
- 3 Text: 3M reflective film #3990 (white)
- 4 Arrow: 3M reflective film #3990 (white)
- 5 Text: 3M reflective film #680-85 (black)
- 6 Background: Paint Matthew's #78A-1A Jet Black

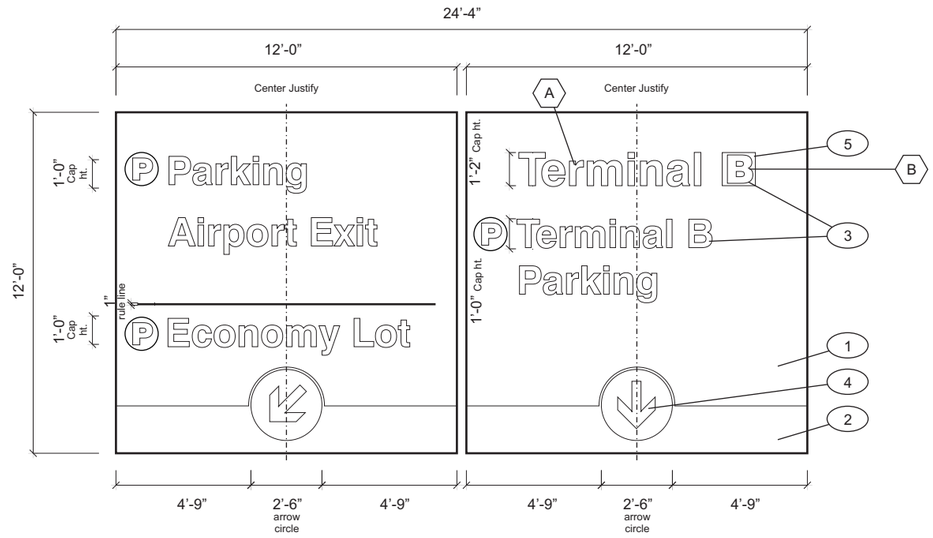
GRAPHICS: N/A

ARROWS: 20"

MOUNTING: Overhead directional.

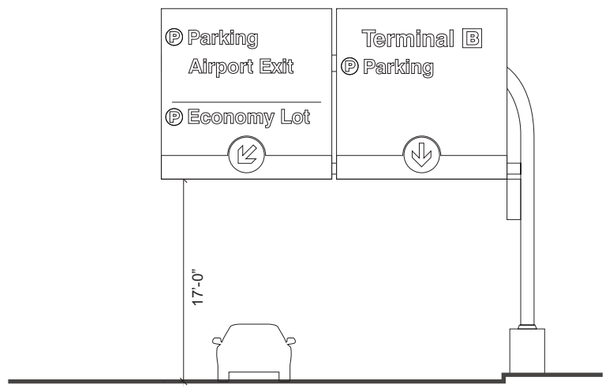
ILLUMINATION: Sign will be Externally Illuminated.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/16"=1'-0"



ELEVATION

Scale: N.T.S.

Directional - Overhead ST - 407

DESCRIPTION: Overhead directional - 4 panels

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: Paint Matthew's #78A-1A Jet Black
- 2 Band: 3M Opaque Film (Dark Gray) #7725-41
- 3 Text: 3M reflective film #3990 (white)
- 4 Arrow: 3M reflective film #3990 (white)
- 5 Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 6 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 20"

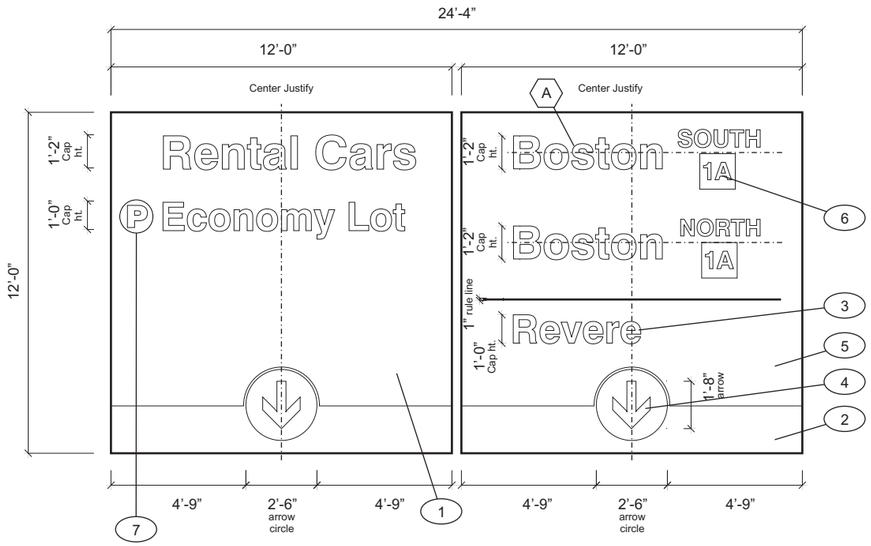
MOUNTING: Overhead directional.

ILLUMINATION: Sign will be Externally Illuminated.

Note: See page 3-38 for attachment methods.

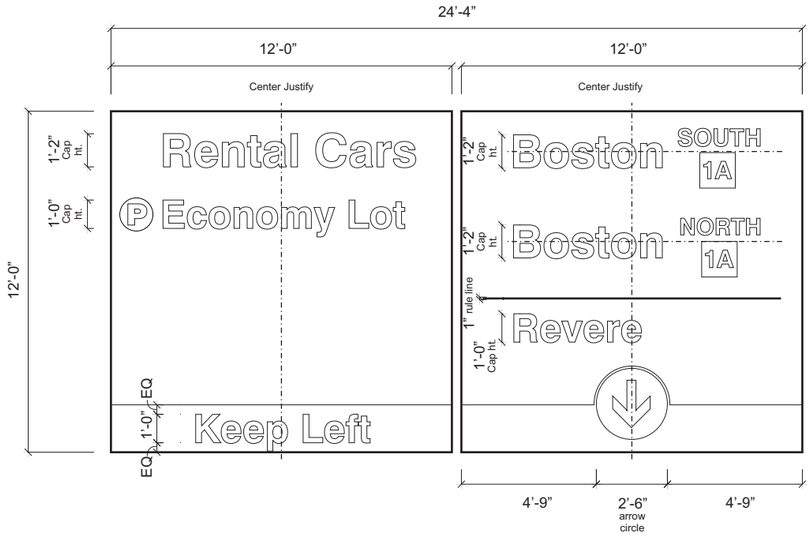
NOTE: Please refer to following pages for alternate layouts.

#	Revision	Date



SIGN FACE ALTERNATE LAYOUT - A

Scale: 3/16"=1'-0"



SIGN FACE ALTERNATE LAYOUT - B

Scale: 3/16"=1'-0"

Directional - Overhead ST - 407

DESCRIPTION: Overhead directional - 2 panels

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Background: Paint Matthew's #78A-1A Jet Black
2. Band: 3M Opaque Film (Dark Gray) #7725-41
3. Text: 3M reflective film #3990 (white)
4. Arrow: 3M reflective film #3990 (white)
5. Background : Paint to match Boston DOT
6. Text: 3M reflective film #680-85 (black)
7. Parking P 3M Vivid Blue Film # 220-17

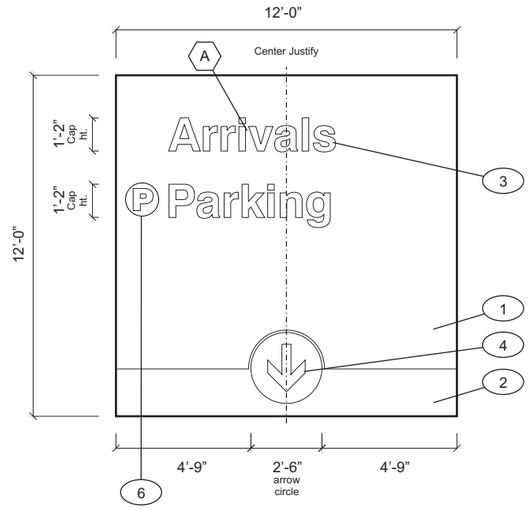
GRAPHICS: N/A

ARROWS: 20"

MOUNTING: Cantilever.

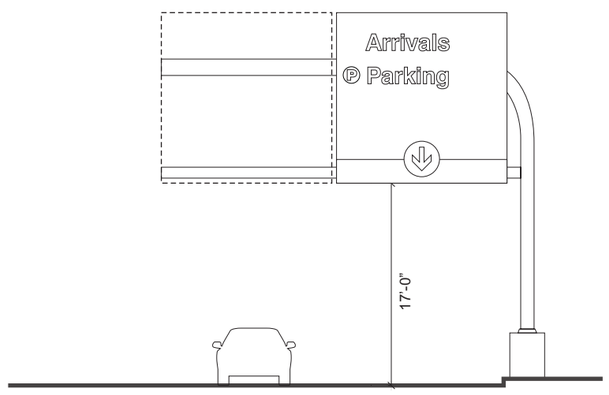
ILLUMINATION: Sign will be Externally Illuminated.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/16"=1'-0"



ELEVATION

Scale: N.T.S.

Directional - Overhead ST - 408

DESCRIPTION: Overhead directional - 4 panels

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Background: Paint Matthew's #78A-1A Jet Black
- 2 Band: 3M Opaque Film (Dark Gray) #7725-41
- 3 Text: 3M reflective film #3990 (white)
- 4 Arrow: 3M reflective film #3990 (white)
- 5 Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- 6 Parking P 3M Vivid Blue Film # 220-17

GRAPHICS: N/A

ARROWS: 20"

MOUNTING: Overhead directional.

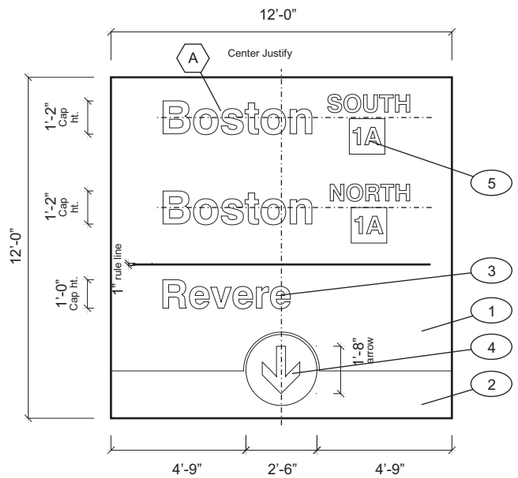
ILLUMINATION: Sign will be Externally Illuminated.

Note: See page 3-38 for attachment methods.

NOTE: Please refer to following pages for alternate layouts.

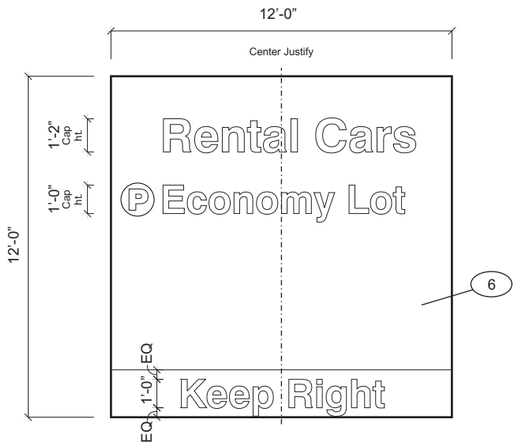
Directional Signs - Primary 3.5.1

#	Revision	Date



SIGN FACE ALTERNATE LAYOUT - A

Scale: 3/16"=1'-0"



SIGN FACE ALTERNATE LAYOUT - B

Scale: 3/16"=1'-0"

Directional - Overhead ST - 408

DESCRIPTION: Overhead directional - 1 panel

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- (A) Swiss721 BT Bold
- (B) Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- (1) Background : Paint to match Boston DOT
- (2) Band: 3M Opaque Film (Dark Gray) #7725-41
- (3) Text: 3M reflective film #3990 (white)
- (4) Arrow: 3M reflective film #3990 (white)
- (5) Text: 3M reflective film #680-85 (black)
- (6) Background: Paint Matthew's #78A-1A Jet Black

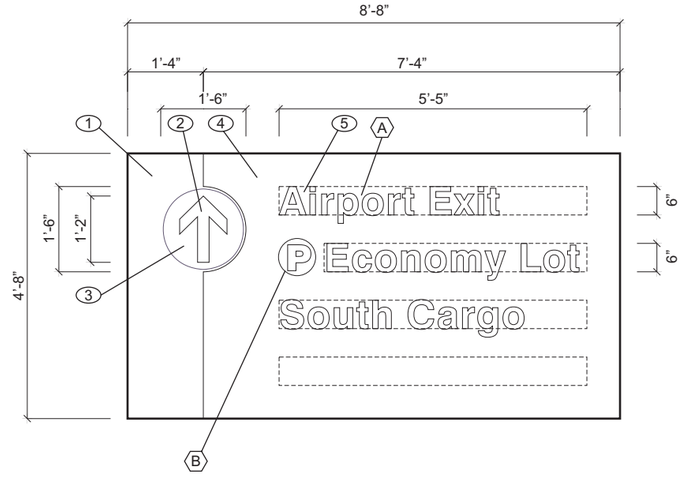
GRAPHICS: N/A

ARROWS: 20"

MOUNTING: Cantilever.

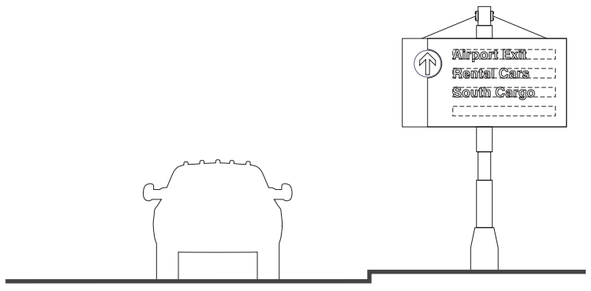
ILLUMINATION: Sign will be Externally Illuminated.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/8"=1'-0"



ELEVATION

Scale: 1/8"=1'-0"

Directional - Roadside ST - 410

DESCRIPTION: Roadside Directional - 1 panel

LOCATION: Roadside perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Band: Paint color to match dark grey #425C
2. Arrow: Diamond grade film #3990 white
3. Arrow Circle: Paint black MAP #78A-1A jet black
4. Background: Paint black MAP #78A-1A jet black
5. Text: Diamond grade film #3990 white

GRAPHICS: N/A

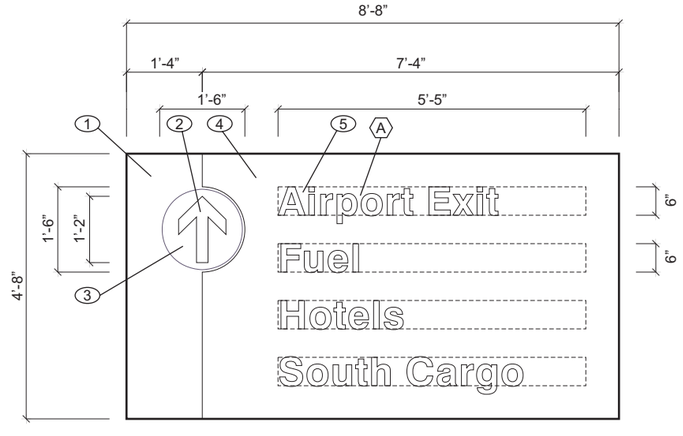
ARROWS: 10"

MOUNTING: Post mounted.

ILLUMINATION: Sign will be Non Illuminated.

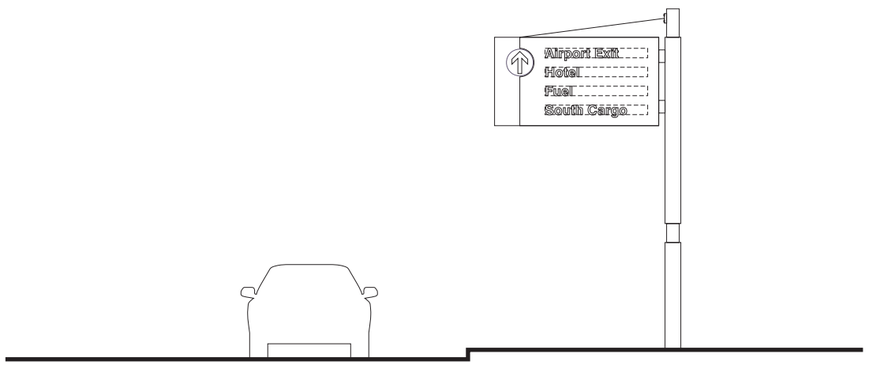
Note: See page 3-39 for attachment methods.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/16"=1'-0"



ELEVATION

Scale: 1/8"=1'-0"

Directional - Roadside ST - 411

DESCRIPTION: Roadside Directional - 1 panel

LOCATION: Roadside perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- (A) Swiss721 BT Bold
- (B) N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- (1) Band: Paint color to match dark grey #425C
- (2) Arrow: Diamond grade film #3990 white
- (3) Arrow Circle: Paint black MAP #78A-1A jet black
- (4) Background: Paint black MAP #78A-1A jet black
- (5) Text: Diamond grade film #3990 white

GRAPHICS: N/A

ARROWS: 10"

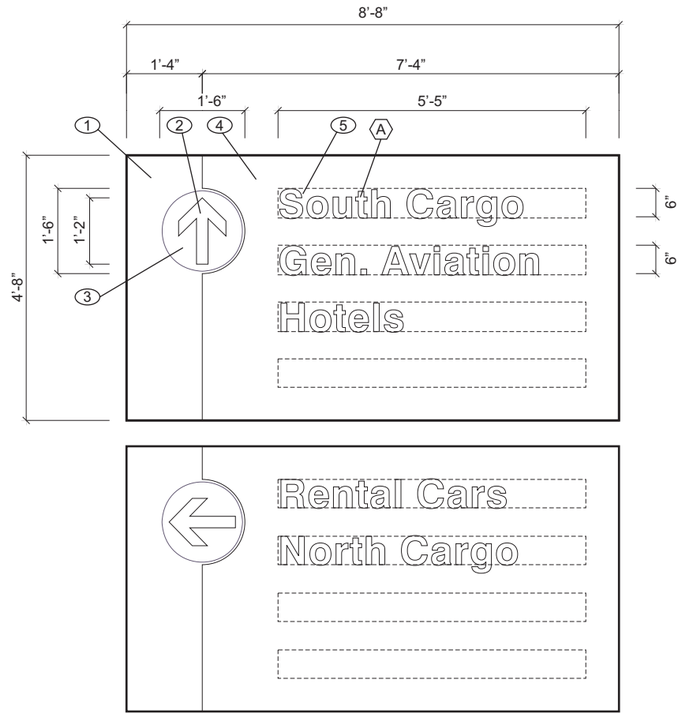
MOUNTING: Post mounted.

ILLUMINATION: Sign will be Non Illuminated.

Note: See page 3-39 for attachment methods.

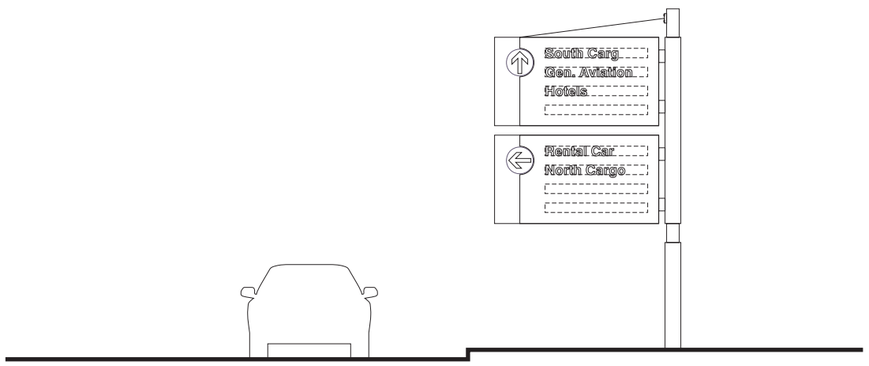
Directional Signs - Secondary 3.5.1

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/16"=1'-0"



ELEVATION

Scale: 1/8"=1'-0"

Directional - Roadside ST - 412

DESCRIPTION: Roadside Directional - 2 panels

LOCATION: Roadside perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
1. Band: Paint color to match dark grey #425C
2. Arrow: Diamond grade film #3990 white
3. Arrow Circle: Paint black MAP #78A-1A jet black
4. Background: Paint black MAP #78A-1A jet black
5. Text: Diamond grade film #3990 white

GRAPHICS: N/A

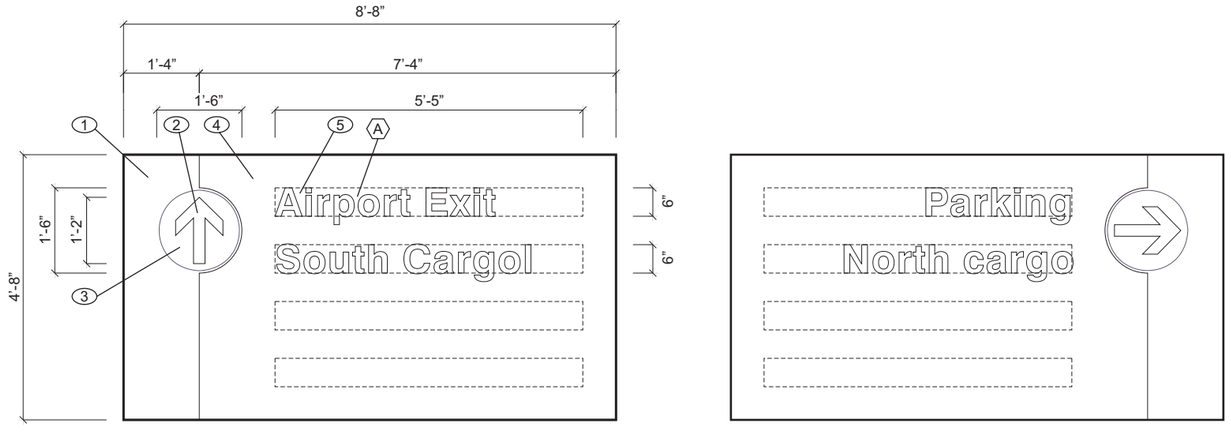
ARROWS: 10"

MOUNTING: Post mounted.

ILLUMINATION: Sign will be Non Illuminated.

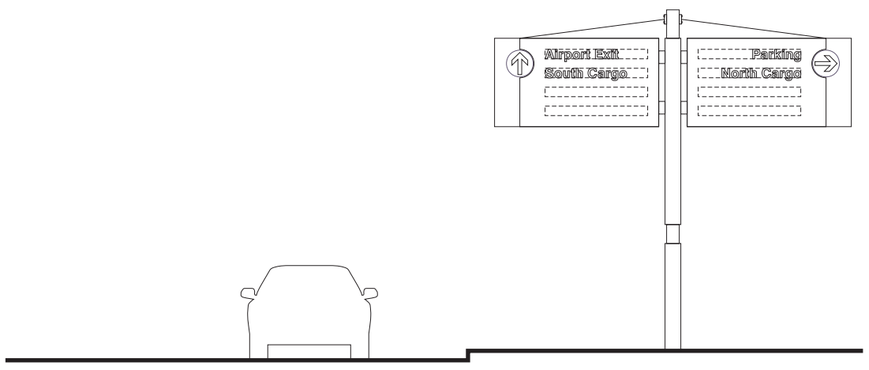
Note: See page 3-39 for attachment methods.

#	Revision	Date



SIGN FACE LAYOUT

Scale: 3/16"=1'-0"



ELEVATION

Scale: 1/8"=1'-0"

Directional - Roadside ST - 413

DESCRIPTION: Roadside Directional - 2 panels

LOCATION: Roadside perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:
- A Swiss721 BT Bold
- B N/A

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- 1 Band: Paint color to match dark grey #425C
- 2 Arrow: Diamond grade film #3990 white
- 3 Arrow Circle: Paint black MAP #78A-1A jet black
- 4 Background: Paint black MAP #78A-1A jet black
- 5 Text: Diamond grade film #3990 white

GRAPHICS: N/A

ARROWS: 10"

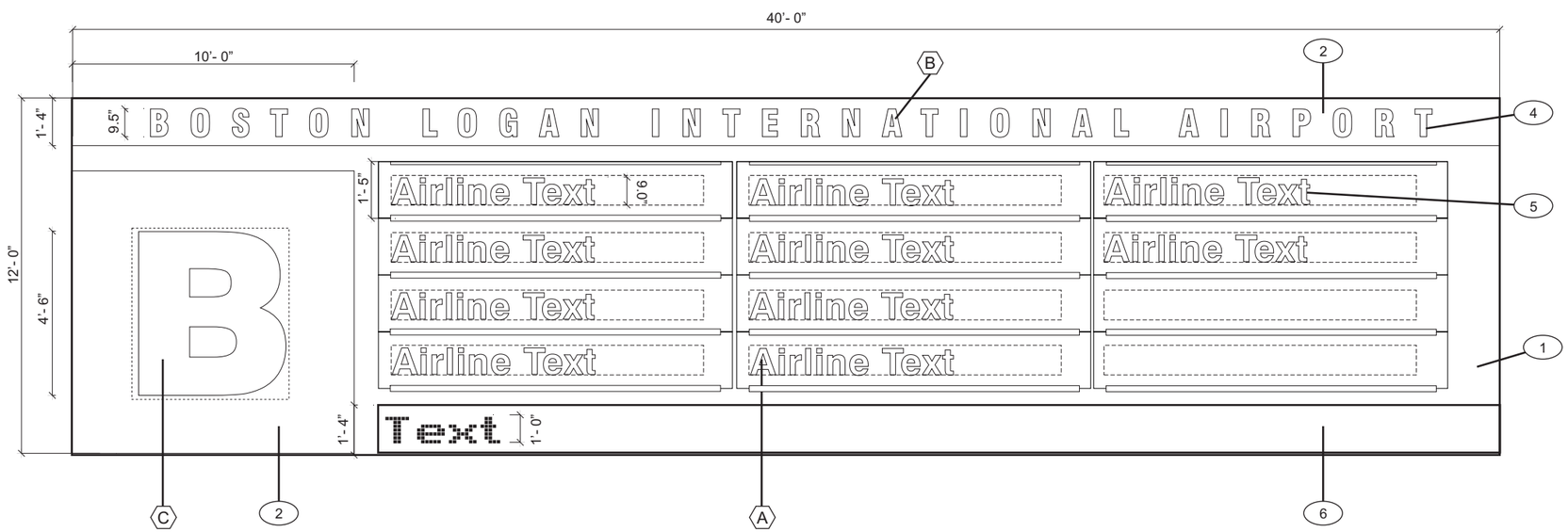
MOUNTING: Post mounted.

ILLUMINATION: Sign will be Non Illuminated.

Note: See page 3-40 for attachment methods.

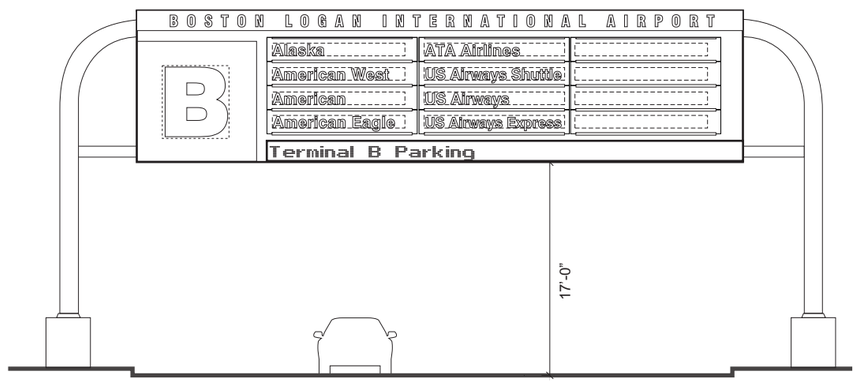
Directional Signs - Secondary 3.5.1

#	Revision	Date



SIGN FACE LAYOUT

Scale: 1/4"=1'-0"



ELEVATION

Scale: N.T.S.

Note: See page 3-38 for attachment methods.

Airline Listing - Roadways ST - 451

DESCRIPTION: Overhead airline listing

LOCATION: Roadways perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face with reflective vinyl.

LETTERING:

- A Swiss721 BT Bold
- B Swiss721 Condensed BT Bold
- C Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:

1. Background: Paint Matthew's #78A-1A Jet Black
2. Terminal I.D:
   Terminal A 3M#230/230-127 (Intense Blue)
   Terminal B 3M#230/230-33 (Red)
   Terminal C 3M#230/230-26 (Green)
   Terminal D 3M#220-98 (Dark Violet)
3. Header: Brushed Aluminum
4. Text: 3M reflective film #680-85 (black)
5. Text: 3M reflective film #3990 (white)
6. VMS

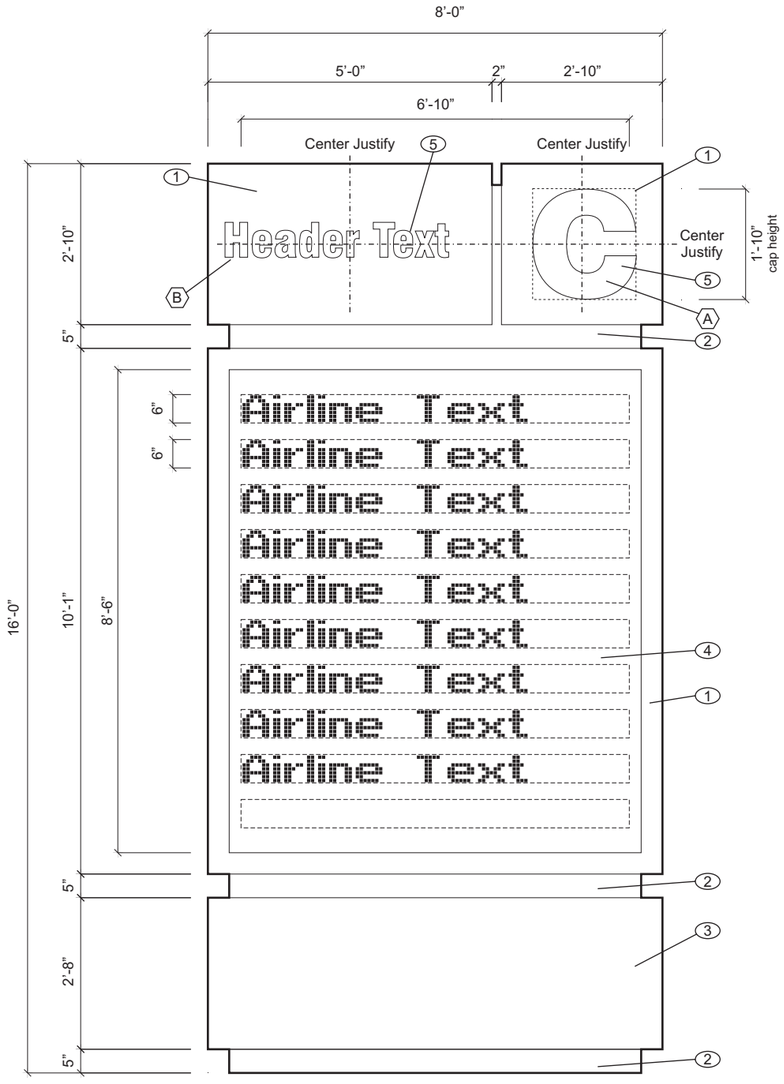
GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Overhead.

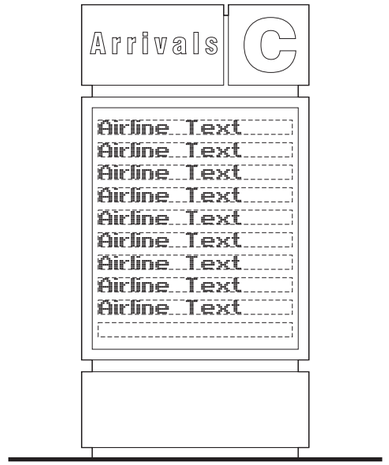
ILLUMINATION: Sign will be Externally Illuminated.

#	Revision	Date



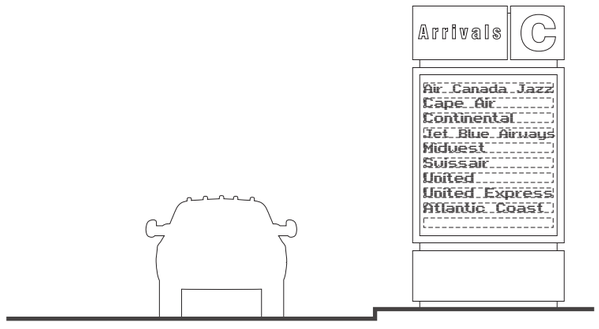
SIGN FACE LAYOUT - OPTION A (Dynamic - Departures)

Scale: 3/8"=1'-0"



SIGN FACE LAYOUT - OPTION A (Dynamic - Arrivals)

Scale: 3/16"=1'-0"



ELEVATION

Scale: 1/8"=1'-0"

Airline Listing - Roadways/ Curbside **ST - 452**

DESCRIPTION: Roadways/ Curbside Airline Listing

LOCATION: Curbside perpendicular to vehicular traffic.

MATERIALS: See detials.

LETTERING:
- (A) Swiss721 BT Bold
- (B) Swiss721 Blk BT

SYMBOLOGY: (Refer to Section 2.2.2)

COLORS:
- (1) Terminal I.D:
  Terminal A 3M#230/230-127 (Intense Blue)
  Terminal B 3M#230/230-33 (Red)
  Terminal C 3M#230/230-26 (Green)
  Terminal D 3M#220-98 (Dark Violet)
- (2) Background: Dark Grey paint to match PMS #432C
- (3) Face Edge: Brushed aluminum
- (4) Background: VMS
- (5) Text: White Acrylic

GRAPHICS: N/A

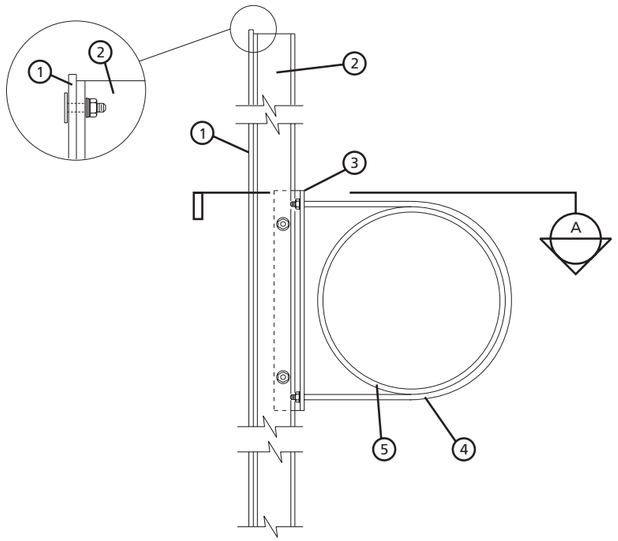
ARROWS: N/A

MOUNTING: Pylon.

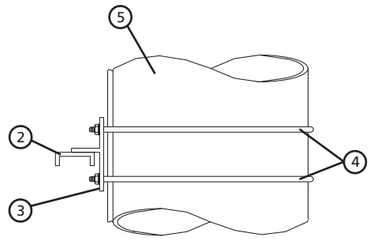
ILLUMINATION: Sign will be Illuminated.

NOTE: Please refer to following pages for alternate layouts.

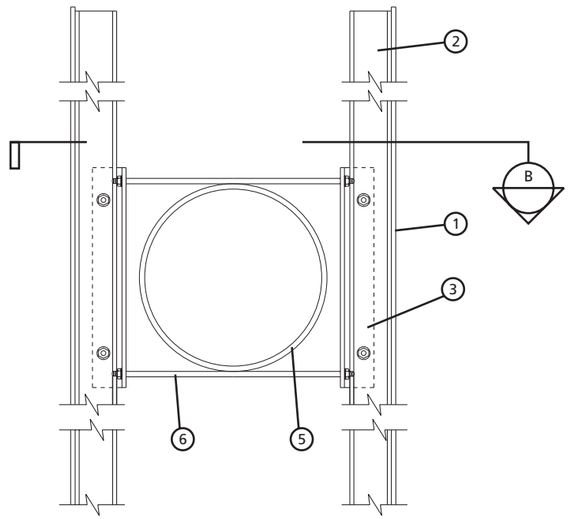
#	Revision	Date



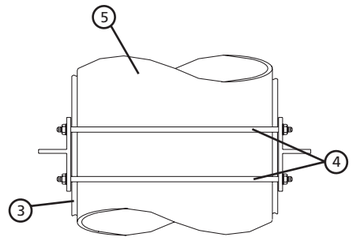
SINGLE PANEL
Scale: N.T.S.



SECTION A
Scale: N.T.S.



DOUBLE PANEL
Scale: N.T.S.



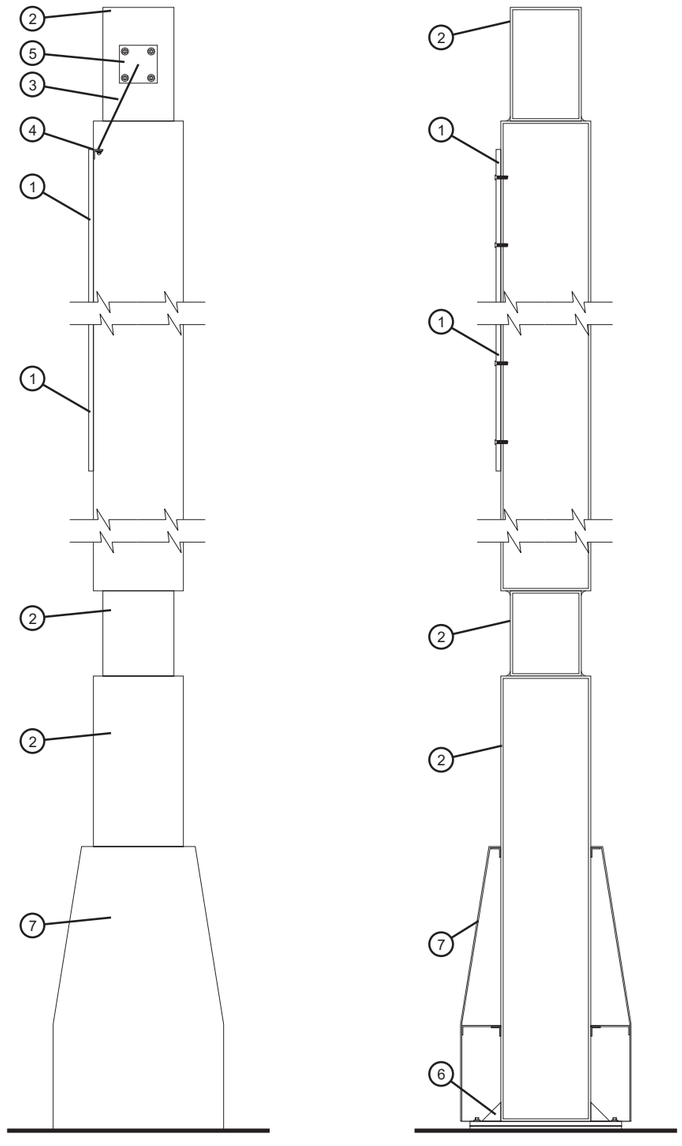
SECTION B
Scale: N.T.S.

ST-401 to ST-407 DETAILS
ST-451 DETAILS

1. Aluminum sign face bolt attach as shown.
2. Aluminum “U” channel.
3. Aluminum “T” flange.
4. Curved steel threaded rod collar. Attach as shown.
5. Existing structure tube.
6. Straight steel threaded rod. Attach as shown.

NOTE:
. For details not shown or noted see “SINGLE PANEL”.
. Assembly details shown apply to tangent portion of pipe only. For mounting bracket on elbow see “DETAIL B”.

#	Revision	Date



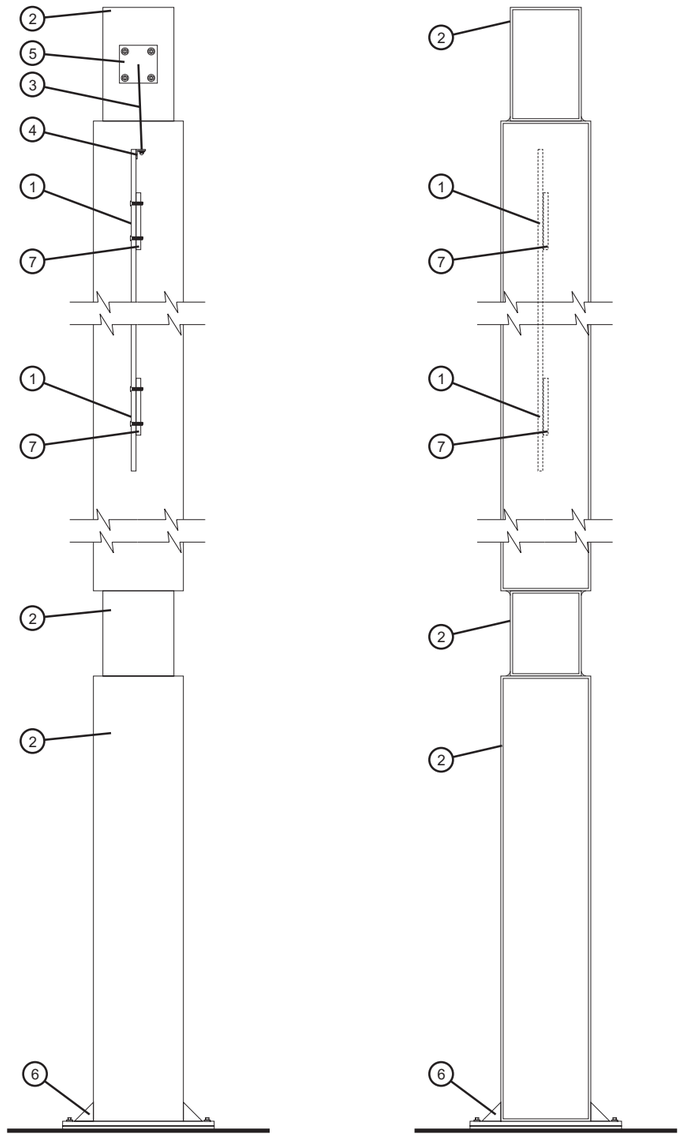
ELEVATION

Scale: 1 1/2″=1′-0″

ST-410 DETAIL

1. Aluminum sign face bolt attach as shown.
2. Aluminum post.
3. Aluminum aircraft cable.
4. Aluminum angle.
5. Aluminum collar plate, mechanically attach.
6. Match Plate and flanges.
7. Aluminum cladding.

#	Revision	Date



ELEVATION

Scale: 1 1/2″=1′-0″

ST-411 to ST-418 DETAIL

1. Aluminum sign face bolt attach as shown.
2. Aluminum post.
3. Aluminum aircraft cable.
4. Aluminum angle.
5. Aluminum collar plate, mechanically attach.
6. Match Plate and flanges.
7. Aluminum arm.

#	Revision	Date

It is important to summarize the previous signage related efforts, in an attempt to clarify the criteria for which this document is based and for a general understanding of the efforts that have lead up to the updating of the Boston Logan International Airport Signage Standards and Guidelines project.

Background

Boston Logan International Airport (BOS) is currently the 18th busiest airport in the USA and New England's primary airport, with over 26 million passengers per year using the Airport. By the year 2010, over 37 million passengers per year are expected to use the Airport's facilities.

Boston Logan International Airport is a conjunction of five connected individual terminals (Terminals A, B, C, D and E) and two major parking garages (Central Parking and Terminal B Parking). Each one of these facilities has its own architectural style, which may become an issue when trying to implement signage that is consistent throughout the Airport. Different signage systems have been implemented to custom fit the conditions of each facility resulting in a variety of sign types and sizes without uniform systematic characteristics.

As of February 2005, the issuance of this document, there are several "systems" in place that create a variation in signage conditions. The "older" system developed by Peter Muller-Munk in 1990 is still within place in several areas of the Airport (Terminal C, for example). In addition, Terminal B and its associated parking areas have an "older" signage system that was developed and implemented by the airlines.

As part of the Logan Modernization program for major landside improvements (terminals and roadways), Massport decided to establish Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft) submitted in May 2002 by Karen Lewis Design, Inc.(Graphic Standards) in an effort to create a seamless and cohesive signage system for the Airport.

These Graphic Standards have been and are continuously being implemented in sections of the Airport (Ex. Terminal E, B/C walkways). Future projects such as MPA Project No. L219-C3 Central Parking Garage Repairs and Expansion and Terminal A Redevelopment are being signed based on Karen Lewis Sign Program Guidelines and Graphic Standards.

Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft):
This program consists of a variety of sign type families for terminals, curbside, roadways and Airport service buildings. Karen Lewis Design Inc. Provided Massport with four volumes total that reference specifically to each one of these areas:

- Volume 1: Passenger Terminals Interior
- Volume 2: Passenger Terminals Curbside (Exterior)
- Volume 3: Airport Roadways (Terminal Roadways, Egress Roadways and Service Roads)
- Volume 4: Airport Service Buildings (Support Facilities)

#	Revision	Date

Background cont'd

Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft) cont'd:
Each set of sign families consisted of a variety of Directional, Informational, and Identification signs. However; a comprehensive family of identification sign types addressed for Terminals, Gates, and other important facilities/functions is not included in the program.

The existing Graphic Standards propose the use of terminal icons to identify the terminals. These icons carry the color and the letter designated for each terminal (Terminal A: Blue, Terminal B: Red, Terminal C: Green, Terminal D: Orange and Terminal E: Purple). These colors are used in directional signs in the roadways and the terminals.

Conceptual Report:
In an effort to make the passenger's wayfinding experience more pleasant throughout Boston Logan International Airport, the Massachusetts Port Authority (Massport) has decided to evaluate the feasibility of an alternate "color coded system" for the signage program and to review the existing Graphic Standards.

Massport has enlisted the services of Carter & Burgess, Inc (CB) to evaluate the possibility of an alternate "color coded system" and to provide examples of different "color coded systems" currently being implemented at other airports around the country.

The analysis of the existing "color-coded" systems within other airports, that Carter & Burgess, Inc reviewed, consisted of examples from the current Amsterdam's Schiphol International Airport. This specific system utilizes three sign background colors to differentiate between three primary airport function groupings: (yellow) flight services, (green) leaving the airport, and (black) auxiliary services.

Carter and Burgess, Inc summarized and evaluated the "color coded" system, reviewed the in-place signage conditions and current Graphic Standards at BOS and provided Massport with recommendations and alternatives to improve the Airport's signage system. The alternatives and brief description are as follows:

ALTERNATIVE 1 - MODIFY / PROCEED WITH CURRENT GRAPHIC STANDARDS:
Update and further standardize the current Graphic Standards along with additional solutions to enhance the overall program. There are areas on these standards that require enhancement, such as curbside color-coding, messaging on overhead roadways, addition of supplemental sign types, etc. In addition, there is a need to include dynamic signage, VMS, and a signage database.

ALTERNATIVE 2 DEVELOP NEW COLOR-CODED SIGN PROGRAM:
Re-evaluate the current sign program airport-wide and revise the system to be in compliance with the color-coding based on the "Schiphol-model".

ALTERNATIVE 3 HYBRID SIGNAGE SYSTEM:
Integrate the new color-coding principles with the current Graphic Standards. The alternative would include implementing color-coding to a lesser degree than used at Schiphol or NY/NJ, but still utilize the methodology of the system. Color-coding only the international symbols or using color-coding rule lines/ bands may achieve this.

#	Revision	Date

Background con't.

Conceptual Report con't:
The complete list of conclusions and recommendations as well as the results of the study can be found in the "Conceptual Report: Color-Coded Wayfinding Study" submitted to Boston Logan International Airport on April 2003.

Wayfinding Analysis and Plan:
Based on the recommendations and alternatives proposed by CB in the "Conceptual Report: Color-Coded Wayfinding Study", Massport commissioned Carter and Burgess to develop a Wayfinding Analysis and Plan in July 2003.

The purpose of the Wayfinding Analysis and Plan was to identify and determine key wayfinding decision points for passengers throughout Boston Logan International Airport for proper wayfinding signing. This analysis included terminals, curbside, garage, frontage roadways, etc. , and develop a plan of recommendations showing conceptually how to improve these problematic areas. CB performed a series of site surveys at BOS in order to identify and determine major circulation patterns throughout the airport as well as major decision points.

The data collected during those visits through photos, videos, surveys, meetings and drawings was used to determine key recommendations that would improve the wayfinding and signage system at the Airport.

In general, the study found that there are signage issues, short-term and long-term, that need to be addressed at BOS. CB provided Massport with general recommendations that would improve the wayfinding and signage system at BOS in both short-term and long-term bases.

SHORT-TERM RECOMMENDATIONS:
As part of the short-term solutions, Carter & Burgess, Inc determined typical problematic areas for proper wayfinding and signage throughout the Airport and recommend interim solutions for each one of these situations.

CB provided Massport with temporary solutions for terminals, curbside, parking and roadways that can be found in the packages listed below:

- Short-Term Recommendations Terminals: Submitted February 16th, 2004
- Short-Term Recommendations Curbside: Submitted March 16th, 2004
- Short-Term Recommendations Parking: Submitted March 16th, 2004
- Short-Term Recommendations Roadways: Submitted March 23rd, 2004

LONG-TERM RECOMMENDATIONS:
As part of the long-term solutions, CB studied the current signage systems being used at BOS and revised the current Graphic Standards that are being implemented in order to provide the Airport with long-term recommendations. These recommendations included changes in the nomenclature, terminology, message hierarchy, international symbols, color-coded system, sign types and other important issues that would affect the signage system throughout the Airport.

The long-term recommendations were presented to the BOS Signage Committee in different occasions through four Signage Committee Work-Sessions:

#	Revision	Date

Background con't.

Wayfinding Analysis and Plan cont'd:

1. Signage Committee Work-Session No.1 held on 10/29/03
2. Signage Committee Work-Session No.2 held on 12/19/03
3. Signage Committee Work-Session No.3 held on 04/28/04

The decisions made by the Committee during the Work-Sessions determined the direction of the Signage Standards and Guidelines. Detailed recommendations regarding Terminology, Message Hierarchy, International Symbols, Typography, etc,. can be found in the Section 2.0 Graphic Standards of the Signage Standards and Guidelines for each area.

Signage Standards and Guidelines:
Upon the completion of the Wayfinding Analysis and Plan CB was commissioned for a third task at BOS. This task consisted of revising and modifing the Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft). This document is the third of five volumes of the Signage Standards and Guidelines developed by CB.

The objective of the Signage Standards and Guidelines is to provide a set of design standards, requirements and design criteria to be used for all interior and exterior signing applications at BOS. The document will be the primary reference for those designing and implementing the Airport's capital improvement program. Criteria relating to terminology/symbology, graphic layout, letter style, arrow size, size relationships, color relationships, sign types, mounting conditions, etc. is set forth in these standards and guidelines.

Signs Regulated by the Documents:

- All exterior and interior directional, identification, and informational signs for public throughout the airport property:
  - Access Roadway
  - Airport Roadway
  - Curbside (Upper, Lower)
  - Ground Transportation
  - Terminal(s)
  - Parking Garage and Sub-ordinate Parking Facilities
  - Airport Services Facilities

There are five "volumes" in the total set of Graphics Standards and Guidelines for BOS. Each volume is a separate reference to a different area(s) or new development as follows:

- Volume 1:Terminals
- Volume 2: Curbside and Ground Transportation
- Volume 3: Parking
- Volume 4: Roadways
- Volume 5:Airport Services Facilities

#	Revision	Date

Background, con't

Based on the determination of required messages in the various areas of the airport property and the relationship of message function to message hierarchy, a numbering system was developed to classify sign types. The following list outlines all of the sign type series used at BOS.

Series 100 - Terminal
- Directional 101 - 150
- Identification 151 - 180
- Informational 181 - 199

Series 200 - Curbside/Ground Transportation
- Directional 201 - 250
- Identification 251 -280
- Informational 281 - 299

Series 300 - Parking
- Directional 301 - 350
- Identification 351 -380
- Informational 381 - 399

Series 400 - Roadways
- Directional 401 - 450
- Identification 451 - 480
- Informational 481 - 499

Series 500 - Airport Services Buildings
- Directional 501 - 550
- Identification 551 - 580
- Informational 581 - 599

APPENDIX

#	Revision	Date

1.0 Overview
1.1 Volume 5 : Airport Services Buildings - Overview

2.0 Graphic Standards
2.1 Typography
2.2 Terminology/Symbology
2.3 Message Hierarchy
2.4 Arrow Standards
2.5 Color Standards

3.0 Sign Types - Airport Services Buildings (500 Series)
3.1 Sign Types Summary
3.2 Identification System
3.3 Grid Layouts
3.4 Mounting Requirements
3.5 Sign Type Index
3.6 Sign Type - Layouts
3.6.1 Directional Signs
3.6.2 Identification Signs

Appendix

A.1 Signage Program Overview
A.2 Circulation Diagrams

#	Revision	Date

Purpose and Scope 1.1.1

The purpose of this volume of the Signage Standards and Guidelines is to outline general criteria for the design and/or fabrication of signage within the airport services buildings of Boston-Logan International Airport (BOS). This is intended to meet the particular needs of the airport services buildings area while maintaining overall design cohesion with the signage system airport-wide.

Adherence to the standards of this document and official Massachusetts Port Authority (Massport) policies and procedures will ensure consistency throughout the signage system at BOS.

Signs Regulated by this document include:

- All exterior directional, identification, and informational signs for public use throughout the support facility areas within the Airport property, including:
  - Roadways
  - Property Entrances
  - Activity Areas
  - Buildings
  - Tenants

Signs NOT Regulated by this document include:

- Terminal(s) (see Volume 1)
- Curbside (see Volume 2)
- Ground Transportation (see Volume 2)
- Parking (see Volume 3)
- Roadways (see Volume 4)
- Vehicular pavement markings
- Vehicular regulatory
- Rental car facilities
- Non-public areas

#	Revision	Date

Purpose and Scope cont'd. 1.1.1

This volume is organized in four main sections: Overview, Graphic Standards, Sign Types, and Appendix.

- **Overview** - includes an overall explanation of the signage program as well as the purpose and scope of the volume.

- **Graphic Standards** - includes general specifications applicable to all sign types, which include:
  - TYPOGRAPHY - application and standardization for all typography used on directional, informational, and identification signage.
  - TERMINOLOGY/SYMBOLOGY - includes all terminology and symbology that shall be used in the Airport Services Buildings signage.
    MESSAGE HIERARCHY - includes message hierarchy for each category organized by sign types. Those categories are: Primary Messages, Secondary Messages and Tertiary Messages.
  - ARROW STANDARDS - includes arrow sizes, application on directional signage, orientations and placement.
  - COLOR STANDARDS - listing of all colors, paint equivalents, and transparency/ opaque vinyl specifications that shall be allowed through the terminal areas.

- **Sign Types** - specific sign layout information and application guidelines:
  - IDENTIFICATION SYSTEM - includes all the sign type series numbering and specific break down for the sign type numbering within each series.
  - GRID LAYOUTS - includes the grid sizes used to determine the sign types sizes.
  - MOUNTING REQUIREMENTS - descriptions of all the mounting styles that shall be used in the terminal areas are given. Specific application or special circumstances are delineated.
  - SIGN TYPE INDEX - sign descriptions and specifications referencing sign layouts and details.
  - SIGN TYPE LAYOUTS - includes sign face layouts, elevations and mounting descriptions.

- **Appendix** - may include forms, graphics, and/ or supplemental information relevant to this specific volume. It also includes circulation diagrams for the airport services buildings areas.

#	Revision	Date

Governing Codes and Standards 1.1.2

Governing codes, city ordinances and standards affecting the Boston Logan International Airport (BOS) signing and graphics system are outlined below. The following list of requirements have been compiled from the various governing codes affecting Boston-Logan International Airport. This list is not to be assumed as a complete list of requirements. If there is a conflict between a requirement listed below and another authoritative code or standard, the more stringent one shall be applied. This section is for reference only, and it is the designer's responsibility to meet all current applicable codes or regulations.

General Regulation Requirements

- In all rooms or areas where smoking is prohibited, plainly visible "NO SMOKING" signs (using either the verbiage or symbol, or both) shall be posted.
- Elements and space of accessible facilities which shall be identified by the International Symbol of Accessibility are:
    - Parking spaces designated as reserved for individuals with disabilities
    - Accessible passenger loading zones
    - Accessible entrances when not all are accessible (inaccessible entrances shall have directional signs indicating the route to the nearest accessible entrance)
    - Accessible toilets, when not all toilets are accessible
- An eggshell finish (11 to 19 degree gloss on 60 degree gloss meter) on sign faces is recommended.
- Illumination levels on sign surfaces shall be in the 100 to 300 lux range (10 to 30 foot candles) on interior signs, and shall be uniform over the sign surface. Signs shall be located such that the illumination level on the surface of the sign is not significantly exceeded by the ambient light or visible bright lighting source behind or in front of the sign.
- Characters and numbers on signs shall be sized according to the viewing distance from which they are to be read. The minimum height is measured using an upper case X. Lower case characters are permitted unless noted otherwise.
- For Braille signs the letters and numbers shall be raised 1/32" minimum, upper case, san-serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8", but no higher that 2". Pictograms shall be accompanied by the equivalent verbal description placed below the pictogram. The border dimension of the pictogram shall be 6"minimum in height.
- Each door to an exit stairway shall have tactile signing that states EXIT and complies with ANSI.

#	Revision	Date

Governing Codes and Standards cont'd. 1.1.2

AAAE	American Association of Airport Executives
AASHTO	American Association of State Highway and Transportation Officials
ACC	Airport Consultants Council
AIGA	American Institute of Graphic Arts
ANSI	American Nationals Standards Institute
ASTM	American Society for Testing and Materials
ATA	Air Transport Association of America
AWI	Architectural Woodwork Institute
CAA	Civil Aeronautics Administration
CAB	Civil Aeronautics Board
CABO	Council of American Building Officials
CSI	Constructions Specifications Institute
FAA	Federal Aviation Administration
FHA	Federal Highway Administration
IATA	International Air Transport Association
NEMA	National Electric Manufacturers Association
NFPA	National Fire Protection Association
MHD	Massachusetts Highway Department

Governing Bodies and Authoritative Organizations

Figure 1.1.1

ADA	American with Disabilities Act
ANSI	American National Standards Institute, Inc.
LSC	Life Safety Code (written by NFPA)
MBC	Massachusetts Building Code
MUTCD	Manual of Uniform Traffic Control Devices
NEC	National Electrical Code (written by NFPA)
SPC	Standard Plumbing Code (written by NFPA)
SBCCI	Standard Building Code
UBC	Uniform Building Code

Codes and Regulations

Figure 1.1.2

#	Revision	Date

Design Criteria 1.1.3

The design criteria for Boston Logan International Airport (BOS) is organized into sections which outline the procedures and requirements for development of a successful signage system to guide visitors through the airport facilities. These principles for design are intended to inform and instruct in properly establishing the signage standards and guidelines for airport services buildings at BOS. This part of the document should be used as a basis for and supplement to the graphic standards to create a uniform and cohesive signing and graphics system for Boston Logan International Airport.

In development of the signage design for BOS, the following list of design requirements/ criteria should be applied to all the sign types:

- Methodology
- Wayfinding Factors Process
- Consistent Sign Placement
- Consistent Legibility

Methodology:
To comprehensively program the airport wayfinding, an in-depth analysis of the facilities and circulation has been conducted, and Wayfinding methodology also has been established which CB has already included in these guidelines. All major airport facilities should be reviewed in a holistic approach to ensure wayfinding consistency throughout. The methodology begins with this review:

- All airport facilities plans (plans and elevations)
- Space functions
- Circulation paths
- Peak load circulation
- Established Nomenclature and Terminology
- Established Message Hierarchy
- Vertical and horizontal circulation
- Primary destinations
- Physical complications
- Connecting passengers verses Origin & Destination

NOMENCLATURE AND TERMINOLOGY:
The first issue that has been taken into account is the Nomenclature and Terminology. Terminology identifying airport functions and space has been standardized and established*(See section 2.2 in Graphic Standards)*.

MESSAGE HIERARCHY:
Hierarchy of messages exist for primary, secondary, and tertiary messaging. Ranking was based on routing or destination priorities and site, or space specific direction(s). The message hierarchy established in this document shall be used to develop message schedules for future signage *(See section 2.3 in Graphic Standards)*.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Methodology cont'd:

GRAPHIC STANDARDS:
The Graphic Standards section of this document shall be used as established in this document for the design of future signage *(See section 2.0 Graphic Standards)*. Included in the graphic standards would be documentation of:

- Font type, size relationships, kerning, spacing, etc.
- Symbols
- Arrows, types and relationships
- Language relationships and ranking
- Clear space
- Graphic element spacing
- Color, color coding
- Branded colors if applicable
- General materials consideration

SIGN TYPES:
The sign type family is the catalog of all directional, identification and informational signage applications. It functions as a tool for programming signs and allows for a much more effective process *(See section 3.0 Sign Types)*. This section includes primary and secondary sign types for:

- DIRECTIONAL SIGNS - Signage designed to facilitate circulation to and/ or from a specific destination within the airport complex.
- IDENTIFICATION SIGNS - Signage designed for identification of specific areas or spaces within the airport complex.

Future signage shall be designed based on the sign types included in the Section 3.0 of this document. Information regarding acceptable sign sizes and mounting requirements is also included.

#	Revision	Date

Design Criteria cont'd. 1.1.3

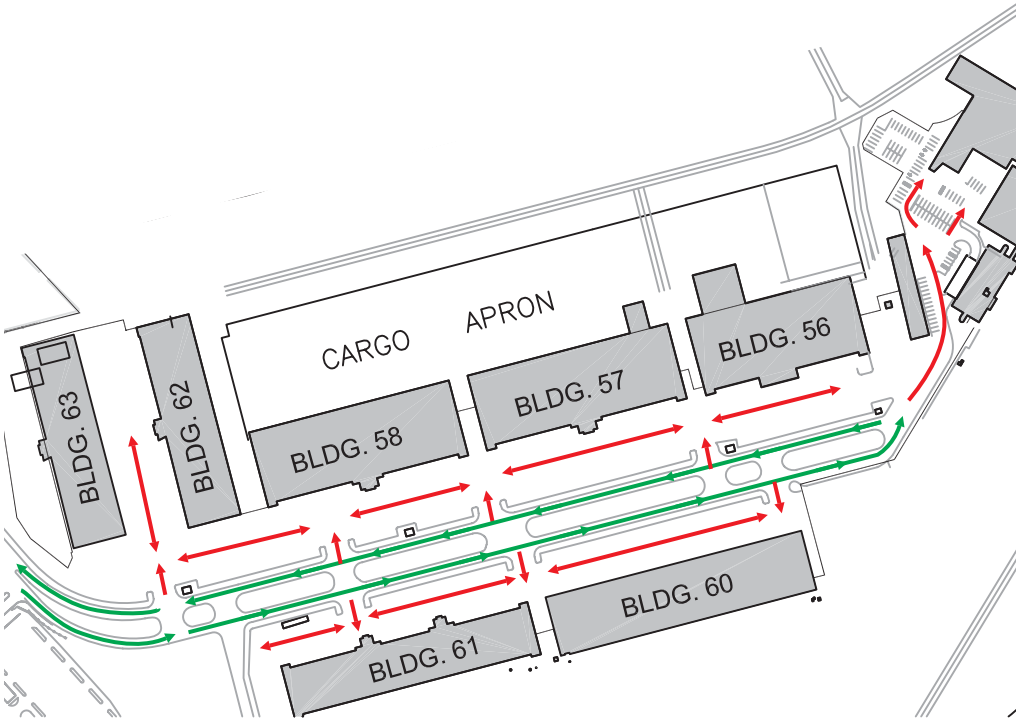
Wayfinding Factors:

The ability to orient and navigate through the various airport environments is fundamentally important. Wayfinding brings into play the analysis of spatial relationships and circulation studies.

CIRCULATION ANALYSIS:

Incoming and Outgoing (or Enplaning and Deplaning) circulation for major user groups shall be charted by the designer of the sign system. Points of origin and destination will be referenced as the basis for identifying critical decision points and information requirements.

Primary user circulation routes are depicted as green lines arrows, pointing in the direction of the traffic flow. The red lined arrows depict the secondary circulation routes that might occur at direction changes.



Circulation Flow

Figure 1.1.3

Traffic Flow Key		
Primary Flow	Secondary flow	Decision Point

#	Revision	Date

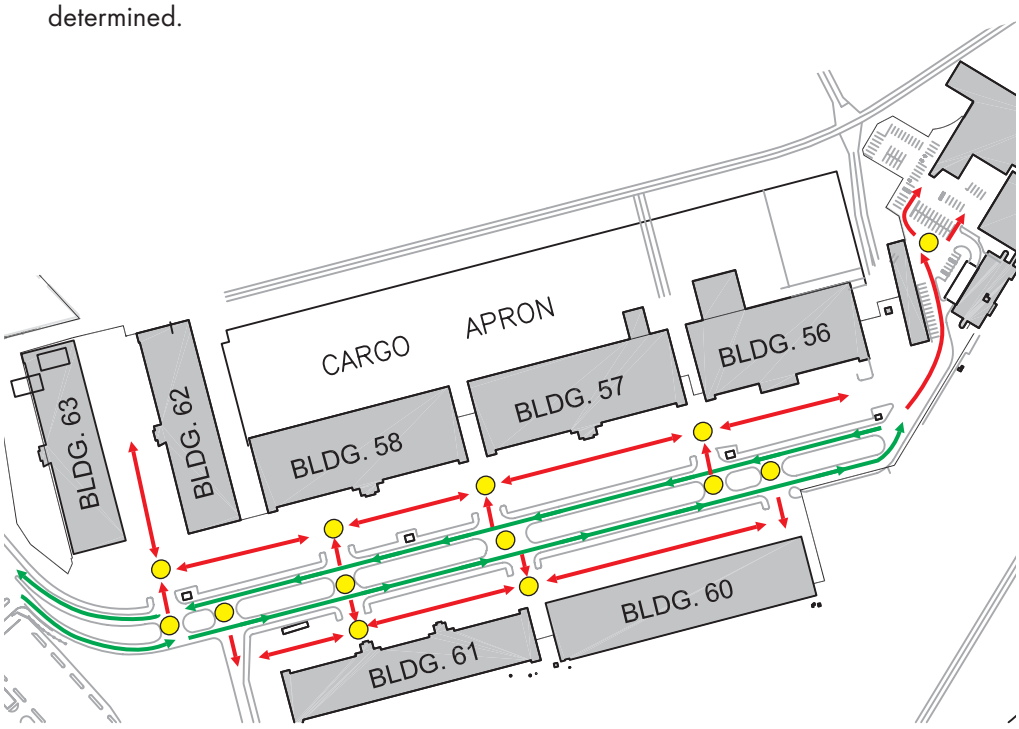
Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

IDENTIFICATION OF DECISION POINTS:
Decision points along user circulation routes shall be located at required direction changes and points where the user encounters alternative choices.

Examples of decision point locations within the existing complex are shown as yellow circles at primary and secondary intersection/directional changing areas. These areas are the most optimal location for placing directional signs that inform the viewer of the existing alternative pathways.

DETERMINING REQUIRED INFORMATION AT DECISION POINTS:
The type of information required at or preceding each decision point should be determined. In addition, the location of messages identifying destination points should be determined.



Circulation Flow

Figure 1.1.4

Traffic Flow Key		
Primary Flow	Secondary flow	Decision Point

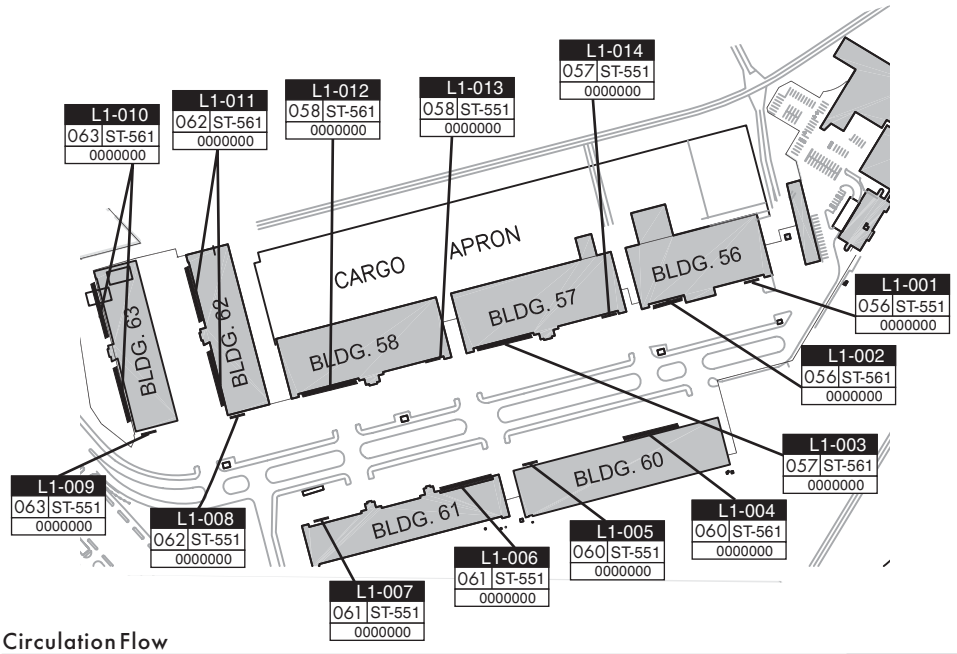
#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

IDENTIFICATION OF SIGN LOCATIONS

Plans, cross sections and elevations of Airport Services Buildings and surrounding roads shall be analyzed by the designer of the sign system. A final sign location plan should then be determined.

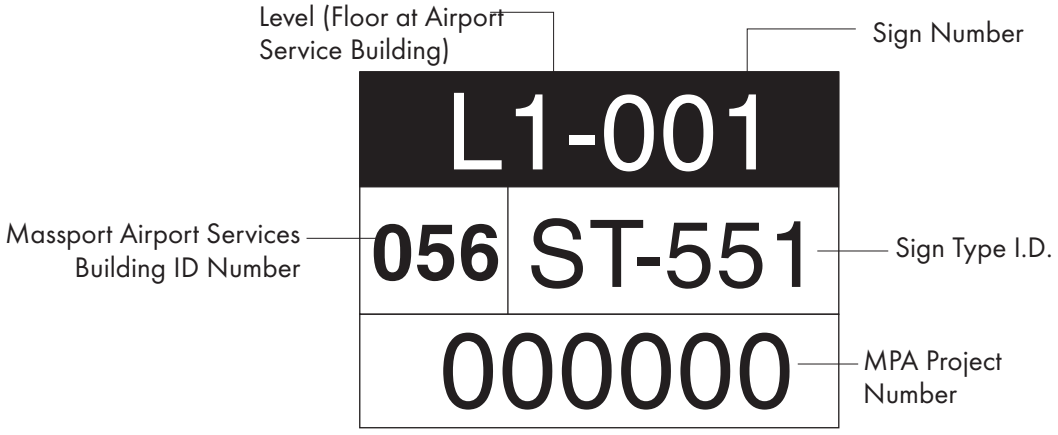


Circulation Flow

Figure 1.1.5

SIGN LOCATION INDICATORS

The following system should be used to identify each sign type and its location on the plans. Each sign shall be given an Airport Service Building ID number, a floor level of the building, an identification of its type and a sequential number for the plan. This will assure that a consistent sign location system is used from designer to designer.



Sign Location Indicator Example

Figure 1.1.6

#	Revision	Date

Design Criteria cont'd. 1.1.3

Wayfinding Factors cont'd:

DELIVERABLES:
Upon completion of the steps mentioned before, the designer shall provide the Airport with detailed drawings and information for the following:

- Circulation Analysis
- Identification of Primary and Secondary decisions points
- Detailed locations of each one of the signs to be constructed and implemented
- Signage database using the Sign location indicator system *(See figure 1.1.5)*

These shall be included for each facility within the Airport property where signage is being developed for. (Terminals, Curbside, Parking, Roadways and Airport Services).

The documents listed above are a compliment to the deliverables necessary to construct the signs (i.e, Sign layouts, message schedules, mounting specifications, construction specifications, etc...) which shall also be provided by the designer.

A detailed list of submitals shall be agreed on between the Authority and the designer prior to commencement of the project.

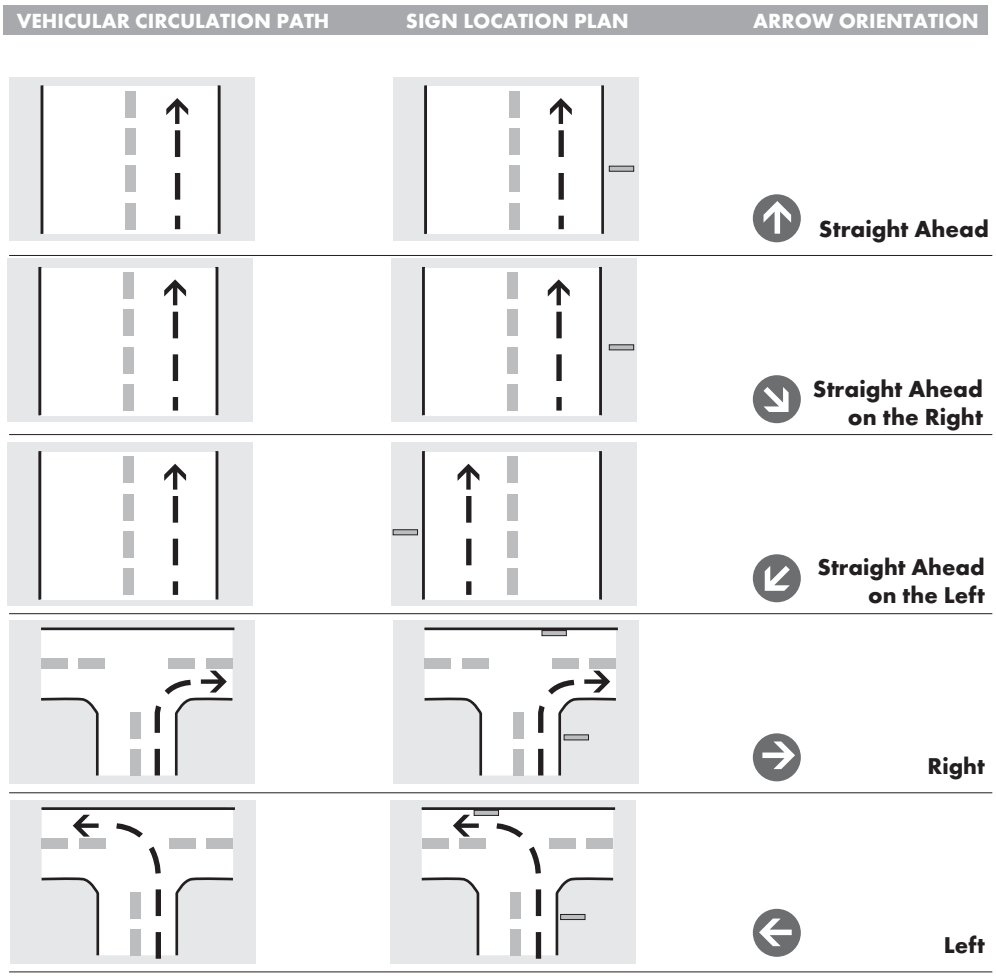
NOTE: This document is intended to be a guideline only. Each designer is expected to complete their due diligence in the design of all signage support structures and related items.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Vehicular Sign Placement:

Viewer circulation patterns and natural lines of vision are the basis for determining the location of all signs. Signs shall be located to precede decision points to ensure sufficient time for vehicles to react to each sign message.



Sign Placement (con't)

Figure 1.1.7

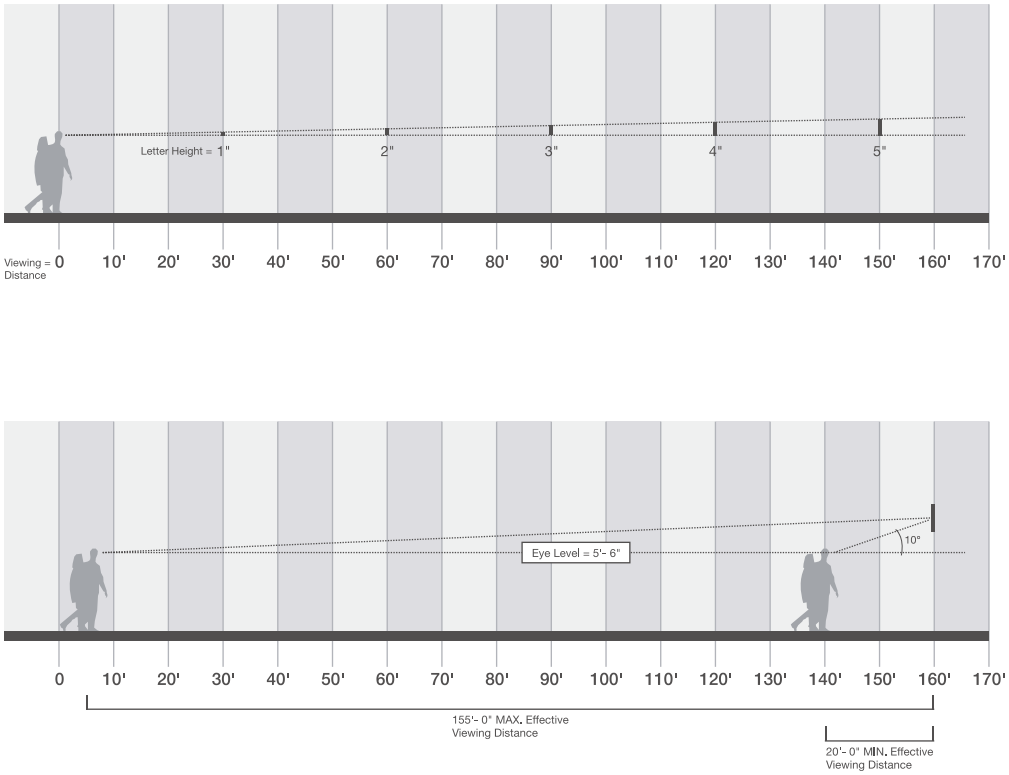
#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility:

Legibility is another important factor within the process of securing an effective signage system. "Legibility" is defined as the recognition of the various elements that make a message or symbol understandable without the aid of additional wording or preconditioning. The following sections set the criteria for legibility related to pedestrian signs. The factors affecting legibility include sign placement, lighting, and color contrast.

It is necessary to have a consistency in placement and presentation of messaging on signs, as well as floor to ceiling height and size of sign. This will minimize the unintended interpretation of the pathways and uses of the facility. The sign location will dictate the range of visibility available for the viewer to interpret the information. If the viewer is given the appropriate distance to comprehend the messages, he/she will be able to make a decision to change direction or stay on the same pathway. It is also necessary to create a consistent size for text and symbols throughout the facility. This will create a repetitive display of information which, in turn, will make interpretation and comprehension easier. *(See Figure 1.1.8 for viewing distances)*



Viewing Distances

Figure 1.1.8

#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility cont'd:

The following criteria and principles shall be applied to the design of traffic signs to convey messages adequately to the driver:

- Signs shall be easy to detect or attract the driver's attention. The most important information needed by most drivers, requiring the most immediate decision, shall be emphasized.
- Signs shall be legible under all conditions including day, night and inclement weather, and when seen at a glance. Simple verbal messages and symbols are more legible than complex ones.
- The message shall be clearly presented, with no sources of misinterpretation and ambiguity. The message shall not depend on a high order of logical deduction for its comprehension.
- The design of the sign shall be such that the information can be quickly rejected by those drivers not needing it.
- Legend and location shall conform to the drivers expectation based on pre-trip planning or previously obtained information, signs seen earlier, and subjective evaluation of the driving situation.
- Each type of information shall be ranked for its importance to the driver and this hierarchy shall be expressed in the use of color, size, shape, message from and in rules governing location.
- The system shall prepare the driver in advance for turning decisions and upcoming road and traffic conditions. Sign location shall allow adequate time to act on the information.
- Information requiring different types of action by the driver shall be conveyed differently.
- Signs shall be installed only where the information is needed. Overuse of signs results in mistrust.
- The use of all codes and forms of message content shall be uniform throughout the system.

.

#	Revision	Date

Design Criteria cont'd. 1.1.3

Legibility cont'd:

Minimum viewing distance shall be affected by horizontal and vertical viewing angles. It is recommended that advance guide (directional) signs be spaced at least 800 feet apart, however that distance shall be lowered to 650 feet as speeds are reduced.

The legibility formula for determining letter height on roadway signs is as follows:



Exterior signs reference:

$$H=\frac{(N+6)V}{100}+\frac{S}{10}$$

H=Height of letters in inches
N=Number of Messages
V=Vehicle Speed in miles per hour
S=Lateral Distance from driver's path

Example: If a vehicle is traveling
25 MPH and the sign is 15'-0"
From the driver's path, the letter height
On the sign shall be calculated
Using the same following formula:

$$H=\frac{(6+6)\ 25\ (MPH)}{100}+\frac{15\ (Lateral\ Distance)}{10}$$

$$H=3+1.5$$

$$H=4.5\ Inches$$

Vehicular Legibility Formula

Figure 1.1.9

#	Revision	Date

Change Procedures / Sign Replacement 1.1.4

Scope and Process for Signage Review

The following explains the scope and process for signage review.* TAA sign types are not goverened by the Guidelines and therefore should not fall under the review process. Aviation Projects, Operational Signage and Communications Projects may or may not need to comply with the Guidelines depending on project goals.

Signage projects should be addressed within the following contexts: Tenant Alteration Applications; Aviation Projects; Communication Projects; Operational Requirements and Capital Projects; the processes for developing Signage scope and design are described below.

Tenant Alteration Application: For a TAA Aviation Administration and Development's projects, the TAA Project Manager is the lead. The TAA Project Manager coordinates with the Manager of Aviation Signage at the inception of each project (whether large or small) to determine if the project will require signage. In some cases the Project will be required to develop a Signage Plan, in other cases Aviation Signage would provide the needed signage. The approach would be case by case.

Aviation Projects: Aviation Projects are lead by various staff within Aviation. The Project Manager meets with the Manager of Aviation Signage and all other stake holders at the inception of each project (whether large or small) to determine if the project will require signage. The Aviation Signage Manager works with stake holders and Project Manager to determine with signage is required and the best methodology for fabrication and whether to do work in-house or use outside vendors.

Communication Projects: For Communications Projects, various staff within Aviation and Communication takes the lead. The Aviation/Communications Team meets with the Manager of Aviation Signage and all other stake holders at the inception of each project (whether large or small) to determine if the project will require signage. The Aviation Signage Manager works with the stake holders and Team to determine what signage is required and the best methodology for fabrication and whether to do the work in-house or use outside vendors. Communications is responsible to provide design.

Operations Requirements: Operational Requirements include Parking, Ground Transportation, Security, Airline Changes, and the Airport Directory System. Aviation Signage Manager is the lead and is responsible for scope, design, fabrication, and installation.

Capital Projects: In a Capital Project, the lead person is the Project Manager. The Project Manager should meet with the Manager of Aviation Signage at the inception of each project (whether large or small) to determine if the project will require signage. In some cases the Project Manager will be required to develop a Signage Plan in other cases Aviation Signage would provide the needed signage. The approach would be case by case.

Provided by Massport on December 17, 2004.

#	Revision	Date

Change Procedures / Sign Replacement* 1.1.4

PHASE 1	Review Tasks	Details		Detail Tasks
Review by: Aviation Admin and Develop. Capital Programs Communications	Does Project Require Signage? If yes, what types?	Permanent	Scope	Wayfinding Location Identification Regulatory/Informational
		Temporary	Scope	Construction Signage Wayfinding
		Marketing/Communications	Scope	Roll Out
	How will signage be funded?	By Project? By Aviation Signage? By Communications?	Scope	Funding
	Does Project drive Signage Changes outside of Project Limits?		Scope	Wayfinding Location Identification Regulatory/Informational
	If so, how will signage be funded?	By Project? By Aviation Signage?	Costs	Funding Funding
	Assignment of Signage Tasks	Project Manager Designer Fabricator		

PHASE 2	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Circulation Diagrams	Arriving	Horizontal Vertical
		Departures	Horizontal Vertical
	Identify Critical Intersections		
	Develop Wayfinding Path Requirements		

PHASE 3	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Draft Sign Matrix	Sign Number Sign Type Sign Message	
	Draft Sign Location Plan		

PHASE 4	Review Tasks	Details	Detail Tasks
Review by: Aviation Admin and Develop. Aviation Business Aviation Signage Capital Programs	Refine Sign Matrix	Sign Number Sign Type Sign Message	
	Refine Sign Location Plan		
	Design Sign Face Layouts		

Change Procedure / Sign Replacement

Figure 1.1.10

#	Revision	Date

All signage typography issues having to do with text size, fonts, capitalization, word spacing, letter spacing, and line spacing are discussed in this section of the document.

Acceptable Type Styles 2.1.1

All text on directional signs shall be set in Swiss 721 BT, unless otherwise specified.

Accepted specialized type styles used for identification and informational sign types are defined in the Specialized Type Style portion of this document *(See section 2.2.4)*.

Capitalization 2.1.2

Aside from special decorative uses and certain regulatory signs, all sign word messages shall be in initial uppercase followed by lowercase. Examples of exceptions:

EXIT
DO NOT ENTER
ATM

- As required by the Americans with Disabilities Act, all tactile messages should be all upper case.
- For better legibility, lower case letters should have a lowercase "x" height that should be two-thirds the height of the uppercase letter.
- All words should be capitalized except for articles, prepositions and conjunctions.
- A consistent capital letter height will be maintained when signs are used in sequence.

Restrictions 2.1.3

Typefaces or weights not described above should not be used. Modification of letter shapes is prohibited unless specified in the graphic standards or on the sign type layout.

Condensed, extended, slanted, outlined or otherwise distorted type should not be used.

Language to this effect should be included in the specifications for all additional airport sign projects.

#	Revision	Date

Type Style Application 2.1.4

The font used for all text messages on airport services buildings signs are to be a consistent version of Swiss. For all support Airport Services Buildings signs, text should appear as equal weight using the established hierarchy of fonts of Swiss. Swiss 721 BT Bold shall be the established font for all text used on directional sign types.

Specialized type style shall be used exactly as specified on each sign type layout. Do not vary from the sign type application provided in the layout *(Refer to each respective sign type for the exact specifications)*.

Note: Type face size shall be regulated depending on sign type.

Swiss 721 BT Bold Type Face Sizes
Swiss 721 BT Bold shall be used at the cap height specified for each sign type in Section 3.5 (Sign Types-Layouts).

ABCDEFGHIJKLMN
OPQURSTUVWXYZ
abcdefghijklmnopqu
rstuvwxyz12345678
90!@#$%^&*()/?””,.

Swiss 721 BT Bold Type Face

Figure 2.1.1

#	Revision	Date

Specialized Type Style 2.1.5

Swiss 721 BT Black Condensed Type Face

The specialized font "Swiss 721 BT Black Condensed" shall be used in the areas outlined as followed. Swiss 721 BT Black Condensed should be used for headers of building ID signs.

ABCDEFGHIJKLMNOPQ
URSTUVWXYZ
abcdefghijklmnopqurs
tuvwxyz1234567890!
@#$% ^ &*()/?"",.

Swiss 721 BT Black Condensed Type Face

Figure 2.1.2

Specialized Type Style 2.1.5

Swiss 721 BT Black Type Face

The specialized font "Swiss 721 BT Black" shall be used in to identify the Airport Services Buildings numbers. See Section 3.5 - Sign Types Layouts for specific use on sign types.

1 2 3 4 5 6 7 8 9 0

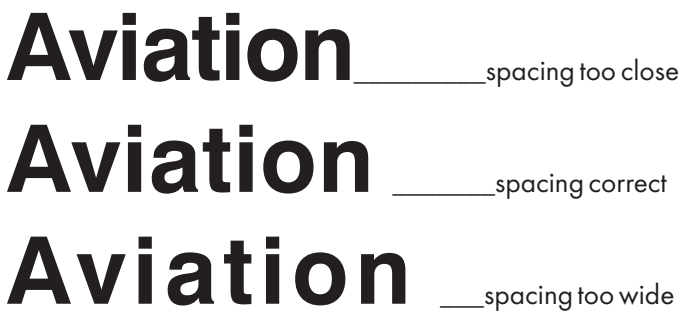
Swiss 721 BT Black Type Face

Figure 2.1.3

#	Revision	Date

Letter Spacing 2.1.6

Unless otherwise indicated, all sign messages shall follow an approximate 10% kerning. In some circumstances, modification of spacing between individual letter pairs may improve the appearance of the sign message. Samples of messages are required for all sign projects for review; and spacing recommendation shall be made where they can be shown to be advantageous. In these instances, hand-kerning may be required on internally illuminated signs to prevent "halation." Reducing normal letter or word spacing (e.g. to fit a lengthy message within a restricted area) shall be prohibited. Letter spacing should match the following:



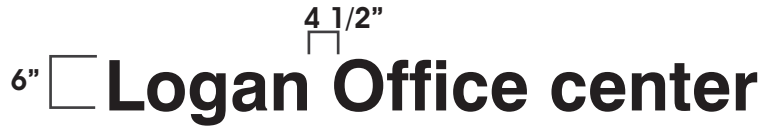
Letter Spacing Comparison

Figure 2.1.4

#	Revision	Date

Word Spacing 2.1.7

Word spacing between related words is normally ¾ (.75) times the cap letter height. For example, a message using 6" cap letters will have 4 1/2" between words *(See Figure 2.1.5)*.

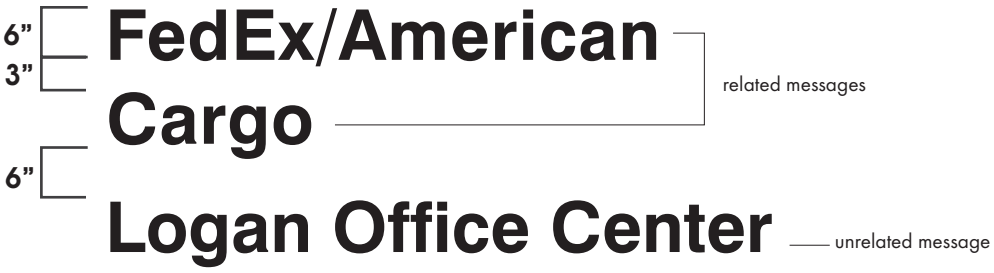


Word Spacing

Figure 2.1.5

Line Spacing 2.1.8

Line spacing shall be ½ (.50) times the cap letter height for words of a related message line. Spacing between unrelated message lines shall typically be 1 times the cap letter height *(See Figure 2.1.6)*.



Line Spacing

Figure 2.1.6

2.0 GRAPHIC STANDARDS

#	Revision	Date

The terminology/symbology has been divided into categories based on its function within the airport. These categories are as follows:

A. Principal Airport Nomenclature
B. Fundamental Airport Functions
C. Parking Facilities
D. Transportation Methods
E. Building Circulation
F. Services
G. Safety and Regulation
H. Concessions

Message Terminology 2.2.1

If a term is shown with a corresponding symbol, it shall always appear with its symbol unless otherwise noted.

Change Procedures for Terminology
Requesting changes for terminology shall require the same approval process as found in Large Scale - New Construction

Symbols - Basic Requirements 2.2.2

The symbols shown shall be used to reinforce and provide visual confirmation of sign messages for pedestrians, unless otherwise noted. These symbols were selected from those for the "Guidelines for Airport Signing and Graphics; Terminals and Landside; 'Third Edition'" developed by:

DOT - Department of Transportation
AIGA - American Institute of Graphic Arts
ATA - Air Transport Association of America
AAAE - American Association of Airport Executives
ACI-NA - Airports Council International-North America
ACC - Airport Consultants Council

These symbols are in broad use around the world. They are readily identified by the international traveling public.

Symbol Restrictions
Symbols not described in this section or not shown on the following pages shall not be used. New or customized symbols not described in this manual shall not be developed for use at BOS, unless authorized by the Massachusetts Port Authority.

Regulatory Symbols
Symbol shape, placement and color on all vehicular regulatory signs shall conform to the Manual on Uniform Traffic Control Devices (MUTCD).

Change Procedures for Symbols
Requesting changes for symbology shall require the same approval process as found in Large Scale - New Construction.

#	Revision	Date

This section defines a uniform hierarchy of messages and information to be used throughout the Boston-Logan International Airport (BOS) complex. By using the terminology set forth in this document, the designer shall be able to organize messages into three succinct categories: Primary, Secondary, and Tertiary.

Message Functions 2.3.1

Directional Messages

Directional messages are of great importance in the facility due to the fact that they are the main information source that enables passengers and visitors to choose the proper route to a specific destination point. This process involves selecting the correct path to a destination point and determining at which point a change of direction is required. Proper directional signing is necessary since the rapid movement of vehicles, visitors, employees, and passengers is essential for maximum utilization and efficiency of the facility.

Identification Messages

Identification messages mark terminals, gates, ticketing, and baggage claim locations, as well as, provide tenants' leasing space within the BOS complex with proper public exposure to their areas and other spaces governed by the airport authority.

Informational Messages

Informational messages typically provide specific and supplementary information about the airport services and functions. Also there are orientational messages that are often graphic, such as maps, so that visitors can develop a sense of the airport layout and their location within the airport.

Regulatory/ Safety Messages

Regulatory/safety messages relate to Federal Aviation Administration (FAA) requirements and recommendations as well as other federal, state, and city regulations. In general, these messages provide passengers with travel advice, warnings and legal restrictions.

Temporary Messages

Temporary messages fall into a separate category of messages. Temporary signs shall be used on an interim basis while permanent signs are in the process of repair or maintenance and as tentative signs while permanent signs are under construction.

#	Revision	Date

Message Hierarchy Relationships 2.3.2

Clear and concise information presented by Primary and Secondary signing systems ensures efficient passenger circulation. Tertiary signs must be coordinated with Primary and Secondary signs and interior design elements. This category of signs shall be distinguished from other signs by graphic methods.

Primary Messages
This information shall be the largest and most visible information on each sign. Primary information shall include:

.Exterior direction to and identification of Airport services buildings, cargo areas and airport.

Secondary Messages
This information supplements or reinforces information already conveyed by the primary messages and signs listed above. It usually indicates the auxiliary services and support functions of the facility. Secondary information is to include:

- Exterior direction and identification of airport services buildings' number and tenants' names.

Tertiary Messages
Tertiary information supplements both the primary and secondary messages and is usually intended to inform visitors of regulations and warnings. All of the regulatory/ safety signs are generally considered to be tertiary. Tertiary information is to include:

- All "No Smoking" messages
- FAA required warning and information
- Other messages required by code

#	Revision	Date

Message Hierarchy Relationships cont'd. 2.3.2

Functions and Hierarchy Relationships (cont'd):
Critical to the smooth flow of pedestrian and vehicular traffic is the need for visual continuity amongst messages and information of the same hierarchy, thus eliminating any elements which may interrupt the scheme or confuse the visitors.

The relationship between message function and message hierarchy serves to create a foundation for the classification of and determination of basic sign types. The tables on the following pages illustrate this relationship for the exterior messages required for BOS.

#	Revision	Date

Message Hierarchy Relationships cont'd. 2.3.2

Figure 2.3.1 demonstrates the hierarchy in which the messages are organized when signing for airport services buildings areas. The message hierarchy is used to assist designers in grouping messages for directional , identification and information sign types. Primary messages should always be grouped with primary messages. If there is need for a secondary message on the same sign, its importance will always be secondary to all primary messages. The designer may have to place the secondary message on a secondary sign type.

Airport Services Buildings - Message Hierarchy

MESSAGE FUNCTION	PRIMARY	SECONDARY	TERTIARY
Directional Roadside (*General Terminology*)	Terminals Airport Exit Rental Cars Parking Economy Lot Hotels Fuel		
Directional Roadside (Facilities)	Logan Office Center General Aviation North Cargo South Cargo MPA Wood Island Substation MPA Facilities II MPA Facilities III MPA Pumping Station UPS Cargo Temporary Signature General Aviation Terminal MPA Facilities I/ Heating Plant MPA Administration Building Electrical Maintenance Stockroom Porter Street Substation BOS Fuel Farm/ Fuel Operation & Control Building MTA Response Sta./Elec. Substation B.U. Office Building Fire Dept. Boat House General Aviation Hangar/ Continental Maintenance Amella Earhart Bldg. Support Northwest Cargo Fedex Cargo Post Office Staging Area U.S. Postal Facility U.S. Air/ United/ Continental Cargo Cargo Bldg. #63 Field Lighting Vault BIF Electric Substation Massport Fire-Rescue Headquarters Satelite Fire Station Station Police K-9 Facility Vent Building #7 Fire-Rescue Boat Dock Central Stockroom Batch Plant and Trailers United GSE Facility		
Identification	Property Number *(i.e, 58)*	Property Name *(i.e, Logan Office)* Tenants within building Non-Cargo buildings functions Tenant name and logo *(i.e, FedEx)*	
Information or Orientation			
Regulatory or Safety	No Parking No parking Tow Zone No Parking Fire Lane No Parking Authorized Vehicle only Access Parking Exit	Emergency Exit Only ENTER DO NOT ENTER No Smoking Smoking Permintted No Pedestrians Beyond this point	Pedestrians use Caution when crossing All FAA notices and required signs AUTHORIZED PERSONNEL ONLY

Airport Services Buidlings - Message Hierarchy

Figure 2.3.1

#	Revision	Date

The arrow standards and applications portion of this document shall define the standards for arrow orientation, sizes, application and placement on directional signage at Boston-Logan International Airport (BOS).

Arrow symbols used as directional elements are more flexible and require less sign layout space than messages. Careful review of sign layouts must be done in order to produce proper proportioning between arrows, messages, symbols and sign panel dimensions *(See Arrow Placement Figure 2.4.4 for placement examples)*.

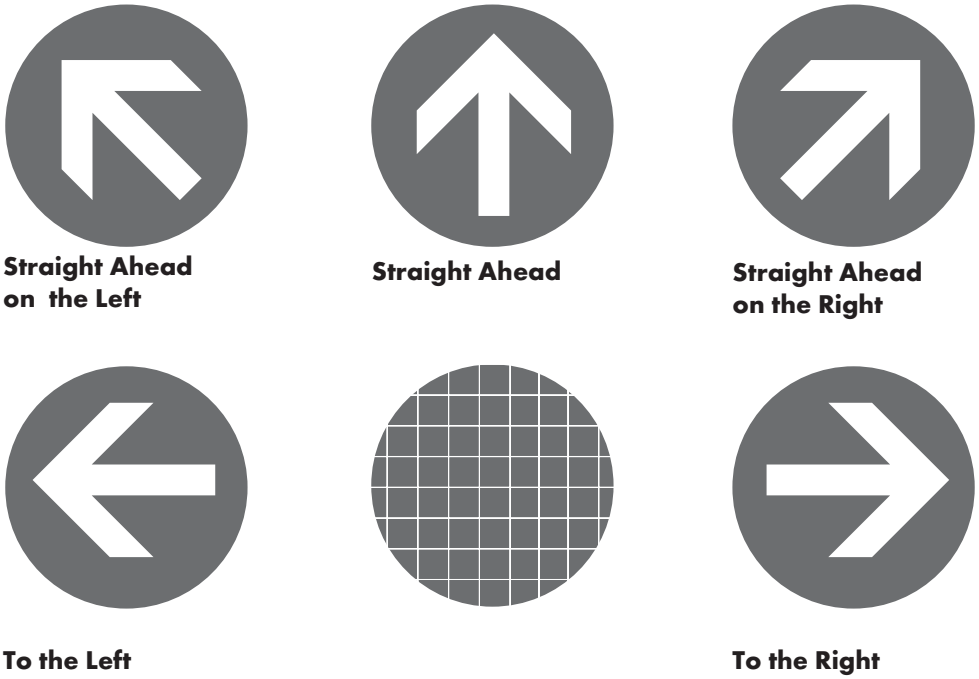
Arrow Orientations 2.4.1

The orientation and directional information that arrow symbols intend to convey is of equal importance to the consistent use of the recommended single style arrow. The arrow orientation to convey "straight ahead" is of particular interest. Either "up arrow" or the "down arrow" can be used for pedestrian specific traffic. However, Vehicular specific traffic typically uses only the “down arrow” to convey “straight ahead” information. Once a method has been selected for the "straight ahead" arrow orientation, consistent application should be continued throughout the signage system. The following are a few guidelines for the use of arrows:

- The standard arrow can be rendered in five (5) different orientations for vehicular specific traffic. No alternate orientations are acceptable, unless approved by Massport.
- Vehicular Signs: Arrow orientation should follow the guidelines provided in this section. Straight-ahead vehicular movement should be indicated by downward facing arrows, unless an upward facing arow can be shown to be clearly advantageous in a specific circumstance *(See figure 2.4.1)*.

#	Revision	Date

Arrow Orientations cont'd. 2.4.1



Vehicular Roadside Arrow Orientation
N.T.S.

Figure 2.4.1

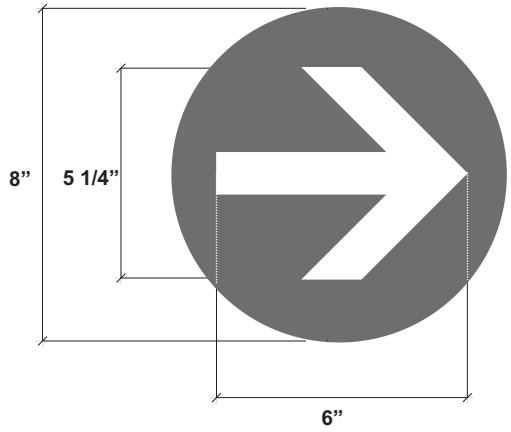
2.0 GRAPHIC STANDARDS

#	Revision	Date

Arrow Sizes 2.4.2

These figures define the arrow sizes that shall be used throughout Airport Services Buildings areas. All vehicular primary signs shall utilize a 6" arrow*(See Section 3.5 for Sign Type Layouts)*.

Vehicular - Primary

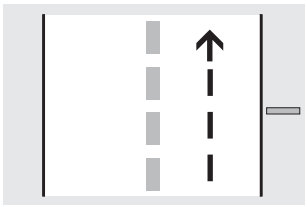
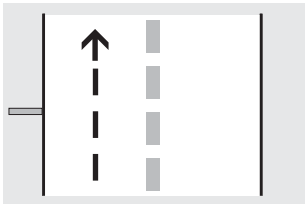
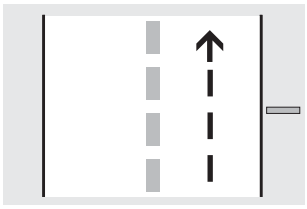
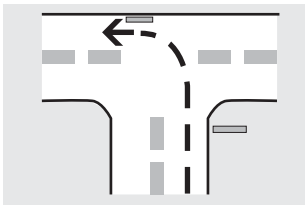
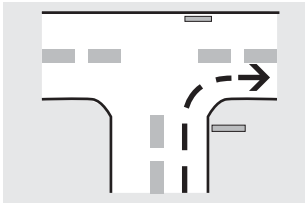


Arrow Sizes
N.T.S

Figure 2.4.2

#	Revision	Date

Arrow Application/Orientation 2.4.3

APPLICATION/ ORIENTATION	LOCATION PLAN	INTERPRETATION
		Straight Ahead
		Ahead on Left
		Ahead on Right
		Left
		Right

Vehicular Arrow Application
N.T.S.

Figure 2.4.3

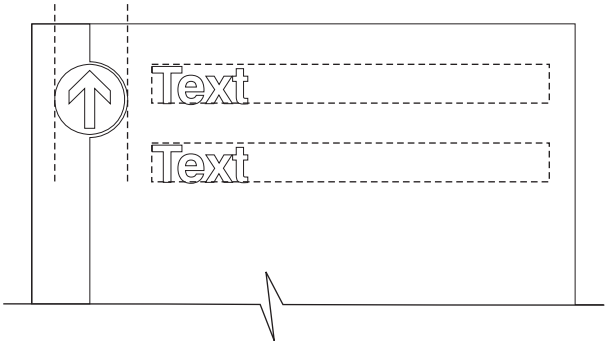
#	Revision	Date

Arrow Placement 2.4.4

The placement of arrows on sign faces should conform to the standard guidelines provided. Arrows may not be positioned in any other location on the sign face.

The following are placement guidelines and restrictions:

- Arrows should NOT point into text.
- Left-facing arrows should be located on the left side of signs, and right-facing arrows should be located on the right side of signs.
- Upward-facing arrows are normally located closest to the flow of traffic.



Arrow Placement
N.T.S.

Figure 2.4.4

#	Revision	Date

This section of the document shall specify colors and applications that are to be used in the Airport Buildings Services areas.

Color Specifications 2.5.1

Sign Color System - Airport Services Buildings

Color Application	Color	Pantone Equivalent	Vinyl Equivalent	Paint Equivalent
Sign Face	Black	*Process Black*	*3M Black Opaque* Film #7725-12*	*MAP Paint* 41-335 Black Anodic*
Text	White	*White*	*3M Translucent White* Film #3630-20*	*MAP Paint* 42-202 Natural White*
Arrows	White	*White*	*3M Translucent White* Film #3630-20*	*MAP Paint* 42-202 Natural White*
Neutral Identification	70% Black	*Color to match 70% Process Black*	*N/A*	*MAP Paint* to match 70% Process Black*
Channel Letter Other Sign Support Structures	Aluminum Finish	*N/A*	*N/A*	*N/A*

*or approved equal

Color Specification
N.T.S.

Figure 2.5.1

2.0 GRAPHIC STANDARDS

#	Revision	Date

Color Application 2.5.2



Sign Color Application - Airport Services Building

Color Application	Color
1 Arrow Background	70% Black
2 Arrows	White
3 Sign Face	Black
4 Text	White

Color Application Examples - ST501
N.T.S.

Figure 2.5.2

#	Revision	Date

Sign Types Usage Summary 3.1.1

This sub-section summarizes the sign types regulated by this document and their usage in the Airport Services Buildings area.

There are three areas into which these sign types have been categorized.

- Support Roads: The sign types included in this category are to be used only in the Airport's support roads.

- All Airport Services Buildings: The sign types included in this category are to be used in all support facilities buildings including cargo buildings.

- Only Cargo Buildings: The sign types included in this category are to be used only on Cargo buildings to identify the tenants.

NOTE:
The sign types included in this document were proposed based on the existing Airport Services Buildings conditions at the time of this submittal (May 2005). However, modifications to this document may occur as new buildings are added. Any modification to these guidelines shall be approved by Massport.

Usage/Location	Function	Hierarchy	Sign Types	Description
SUPPORT ROADS	Directional	Primary	**ST- 501**	Vehicular/Roadside One/Two Directional Freestanding

Usage/Location	Function	Hierarchy	Sign Types	Description
ALL AIRPORT SERVICES BUILDINGS	Identification (Building)	Primary	**ST- 551**	Vehicular/Facade Building ID. Wall Mount
		Secondary	**ST- 552**	Vehicular/Roadside Building ID. Floor Mount
			ST- 553	Pedestrian/Entry Door Building ID. Wall Mount

Usage/Location	Function	Hierarchy	Sign Types	Description
ONLY CARGO BUILDINGS (Tenants)	Identification (Tenants)	Secondary	**ST- 561**	Vehicular/Facade Tenant ID. Wall Mount
			ST- 562	Pedestrian/Entry Door Tenant ID. Wall Mount

#	Revision	Date

Sign Types General Guidelines 3.1.2

Support Roads: (ST - 501)

ST- 501 and 502 General Guidelines:

- Sign Type 501 (Directional- Primary) shall be used on the support roads to direct people from and to the Airport Services Buildings.
- This sign type shall follow the Graphic Standards described in Section 2.2 to 2.6 of this document. Specific sign sizes, materials, and mounting requirements are included in Section 3.5 - Sign Type layouts.

All Airport Services Buildings: (ST - 551, ST - 552 and ST - 553)

ST- 551 (Identification-Primary) General Guidelines:

- Sign Type 551 shall be used to identify all Airport Services Buildings on the side of the road when possible. This sign will carry the building name and number for easy identification by drivers. ST - 551 can be used on both, cargo and non-cargo buildings if there is enough space between the facade and the road.
- Proposed signs shall follow the Graphic Standards described in Section 2.2 to 2.6 of this document. Specific sign sizes, materials, and mounting requirements are included in Section 3.5 - Sign Type layouts.

ST- 552 (Identification-Secondary) General Guidelines:

- Sign Type 552 shall be used to identify all Airport Services Buildings on the facade of the buildings when possible. This sign only identifies the building number at a vehicular scale. ST - 552 shall be used on both, cargo and non-cargo buildings when facade allows.
- Proposed signs shall follow the Graphic Standards described in Section 2.2 to 2.6 of this document. Specific sign sizes, materials, and mounting requirements are included in Section 3.5 - Sign Type layouts.

ST- 553 (Identification-Secondary) General Guidelines:

- Sign Type 553 (Identification-Secondary) shall be used to list the departments and/or offices that operate in the same building if applicable. This sign will carry the building number and the names of the departments as a reinforcement for pedestrians.
- Proposed signs shall follow the Graphic Standards described in Section 2.2 to 2.6 of this document. Specific sign sizes, materials, and mounting requirements are included in Section 3.5 - Sign Type layouts.

#	Revision	Date

Sign Types General Guidelines cont'd 3.1.2

* **Cargo Building:** (ST - 561and ST - 562)

- Building mounted signs shall be the primary identification of companies leasing in Massport at Boston-Logan International Airport. No signs or advertising devices of any nature shall be erected to be visible from the exterior except as specifically permitted in this document.

- Two types of building mounted signs shall be permitted: large building locator signs mounted on second floor facades and small doorway entry signs mounted above first floor doors.

- Consistent sign elements shall be:
  - The mounting location on the buildings
  - The sign size in relation to the area of the building leased
  - Individual letters for building locator signs
  - Box signs for doorway entries
  - Materials

- Variable sign elements shall be:
  - colors
  - type face and style
  - individual logos and corporate identification
  - letter size

- All existing non-conforming signs shall be removed and replaced upon either lease renewal, major renovation, or change of tenancy.

- Temporary signs will be permitted by Massport for new Tenant in cases where the permanent sign installation can not be approved and installed prior to commencement of operations by the Tenant.

- Such temporary signs shall be professionally manufactured and made of nonflammable fabric; with screen applied lettering, sign graphics size, anchoring method, and proposed location to be approved by Massport. Fabric and anchoring methods shall be designed for high wind conditions prevalent at Logan.

**The General guidelines included in this section for the corporate identity signage were taken from "SIGNAGE GUIDELINES SOUTH CARGO AREA" developed by Krueger Associates Inc. in October, 11 1992*

#	Revision	Date

Sign Types General Guidelines cont'd 3.1.2

Design Review Process:

- Massachusetts Port Authority will provide one copy of the Guidelines and a scale drawing of the building elevation for use by the Tenant in preparing a signage submission.
- In accordance with TAA requirements, the Tenant shall make an application for a sign permit providing four copies of all the sign submittal documents to the Department as required below.
- The Tenant shall submit corporate graphics standards used for signage to document the relationship between the corporate standards and the signage application for this building.
- The Tenant shall submit building elevations for their proposed sign(s). Drawings shall be at 1/8" = 1'-0" scale. Each elevation drawing shall include as a minimum: layout on the elevation with dimensions, lettering shown to scale with accurate graphic representation of the style and configuration of letters, logo (if applicable), color, and material indications and a full size drawing of one letter.
- The Tenant shall submit color chip samples for the proposed color of the lettering box panel face and the box enclosure.
- The Tenant shall submit details indicating methods of fastening to building facade, design of illumination, electrical connections, and sealing from the weather.
- The Tenant shall submit complete written specification for all materials, installation methods and finishes related to proposed signs.
- Should the sign for which an application for a permit is made not conform to the Guidelines, the sign shall require a Special Permit from the Massachusetts Port Authority. A Special Permit shall be granted only where the Authority finds that to conform to the Signage Guidelines would involve substantial hardship or that the requirements of the Guidelines can no be met. Application for a Special Permit shall be accompanied by four copies of all the sign submittal document required.

#	Revision	Date

Sign Types General Guidelines cont'd 3.1.2

ST- 561 (Identification-Secondary) General Guidelines:

- All new corporate identity signage shall be mounted on building facades in the positions indicated in Section 3.5 - Sign Types Layouts pp. 3-22 to 3-29.
- All signs shall be fabricated individual letters indicating the corporate name or standard abbreviation.
- A corporate logo shall be permitted in addition to the corporate name.
- All letter and logo signage shall be electrically illuminated letters or logo graphics with internal lighting and translucent face.
- Lettering and logo styles, colors, and layouts shall be in accordance with corporate standards as submitted to Massport.
- All lettering shall be mounted in alignment with the bottom of the "maximum signage area" indicated Section 3.5 - Sign Types Layouts pp. 3-22 to 3-29. Minimum lettering size shall be 2'0" less than the maximum permitted.
- Each Tenant is limited to one sign per building regardless of the area leased.
- Lettering and logo graphics shall be mounted on the existing facade materials in accordance with specifications. Mounting shall be implemented in a manner which minimizes the size and number of fastenings and penetrations of the facade panels.
- Lettering and logo size shall be in proportion of the area of building being leased. As indicated on Section 3.5 - Sign Types Layouts pp. 3-22 to 3-29, standards for full building, half building, and quarter building leases apply to building 56, 57, 58, 62, and 63. Lettering size standards for full building, half building, 1/3 building, and 1/6 building occupancy apply to building 61.
- The power for the signs will be the responsibility of the Tenant. Electric work shall conform with all Massport TAA and Electrical Code requirements.

ST- 562 (Identification-Secondary) General Guidelines:

- All new entrance doorway signage shall be mounted on building facades above doorways in positions indicated by Section 3.5 - Sign Types Layouts pp. 3-30 to 3-32.
- All signs shall consist of a fabricated face panel on a box cabinet, indicating the corporate name or abbreviation.
- A corporate logo sign will not be permitted in addition to corporate name sign.
- Lettering styles, colors, and layouts shall be consistent with corporate standards as submitted to Massport.

#	Revision	Date

Sign Types General Guidelines cont'd 3.1.2

- The first Tenant in a building shall install its sign at the lowest height shown and subsequent Tenants shall install their signs above the previous Tenant signs. Lettering shall be centered in the box and be at least 10" high and no more than 12" high.
- Box cabinet signs shall be mounted on the existing facade materials in accordance with the specifications. The mounting shall be implemented in a manner with minimizes the size and number of fastenings and penetrations of the facade panels.
- The sizes of all box cabinet signs, lettering, and logos shall be as described below. As indicated in Section 3.5 - Sign Types Layouts pp. 3-30 to 3-32, one standard size applies for buildings 56, 57, 58, 61, 62, and 63.
- The power for the signs shall be made available by Massport to a junction box inside the building at a point nearest the exterior sign location. Circuitry and power shall be reviewed with Massport Engineering. Connecting power through the facade and sealing from the weather are the responsibility of the Tenant. All electrical work shall conform to Electrical Code requirements and Massport TAA requirements.

#	Revision	Date

Identification System 3.2.1

Series 100 - Terminals

Sign No.	Description
101 - 150	Directional
151 - 180	Identification
181 - 199	Informational

Series 200 - Curbside

Sign No.	Description
201 - 250	Directional
251 - 280	Identification
281 - 299	Informational

Series 300 - Parking

Sign No.	Description
301 - 350	Directional
351 - 380	Identification
381 - 399	Informational

Series 400 - Roadway

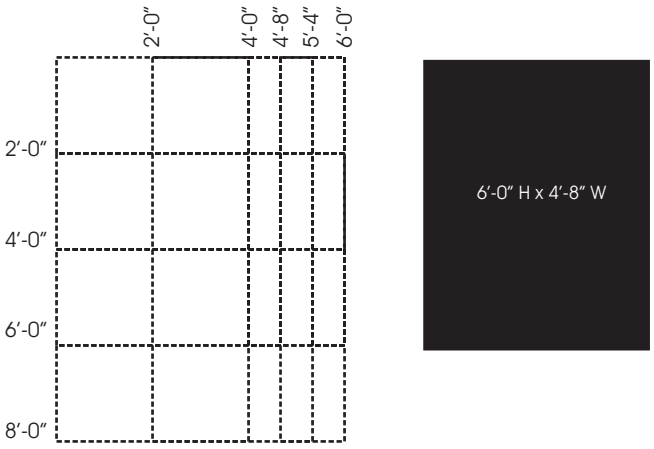
Sign No.	Description
401 - 450	Directional
451 - 480	Identification
481 - 499	Informational

Series 500 - Airport Services Buildings

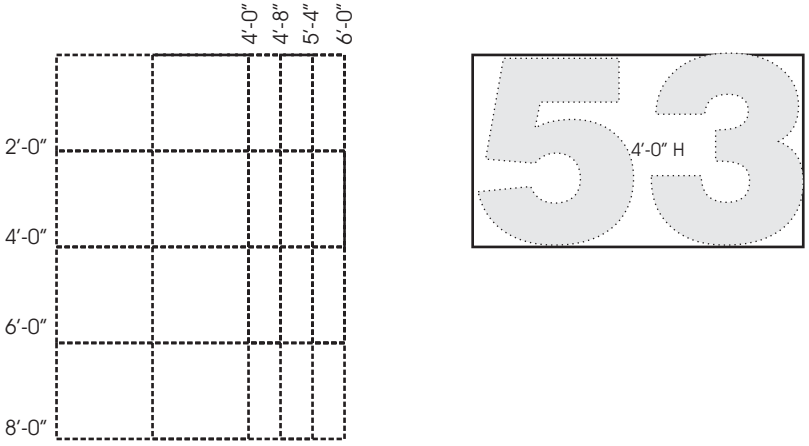
Sign No.	Description
501 - 550	Directional
551 - 580	Identification
581 - 599	Informational

#	Revision	Date

Directional - Primary: Support Roads 3.3.1

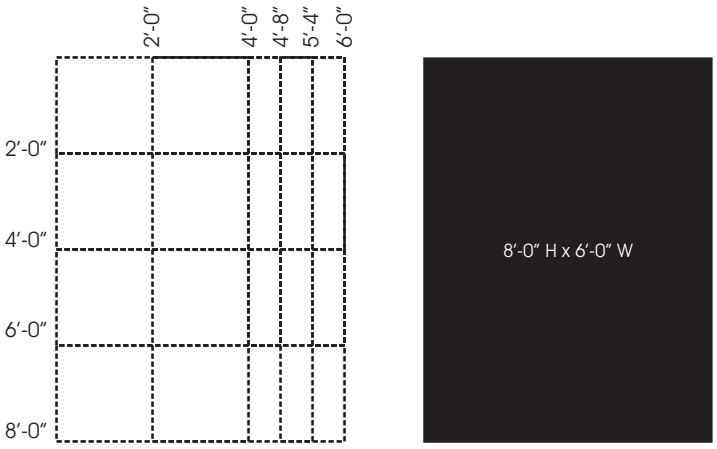


Identification - Primary: All Airport Services Buildings 3.3.2

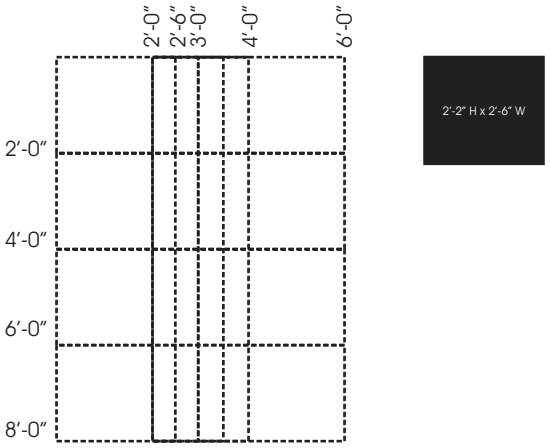


#	Revision	Date

Identification - Secondary: All Airport Services Buildings 3.3.2



Identification - Secondary: All Airport Services 3.3.2

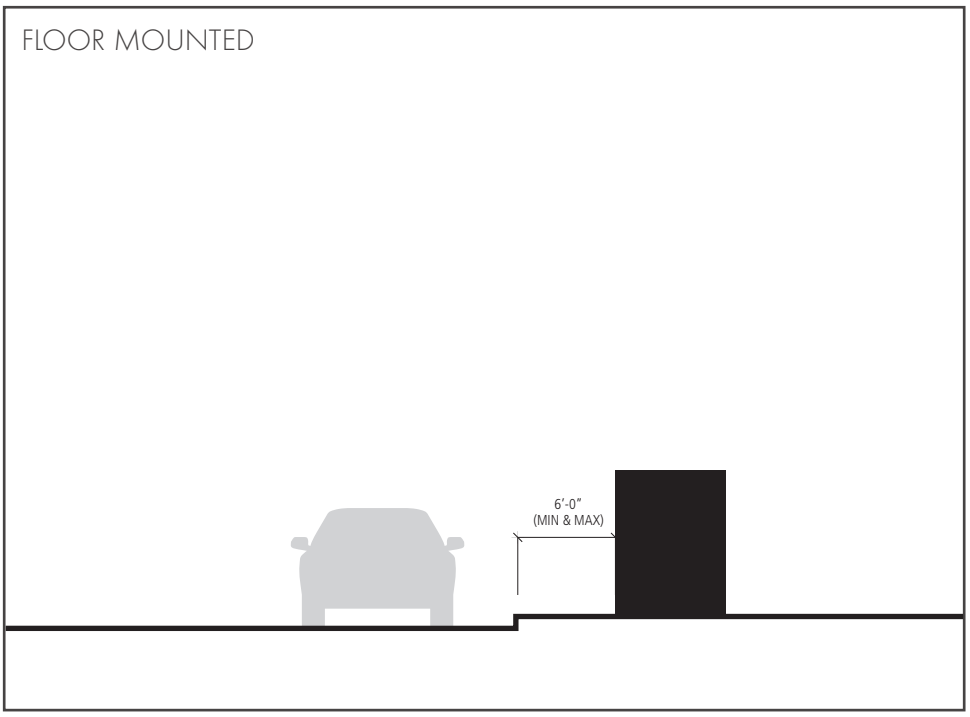


Identification - Primary / Secondary: Only Cargo Buildings 3.3.3

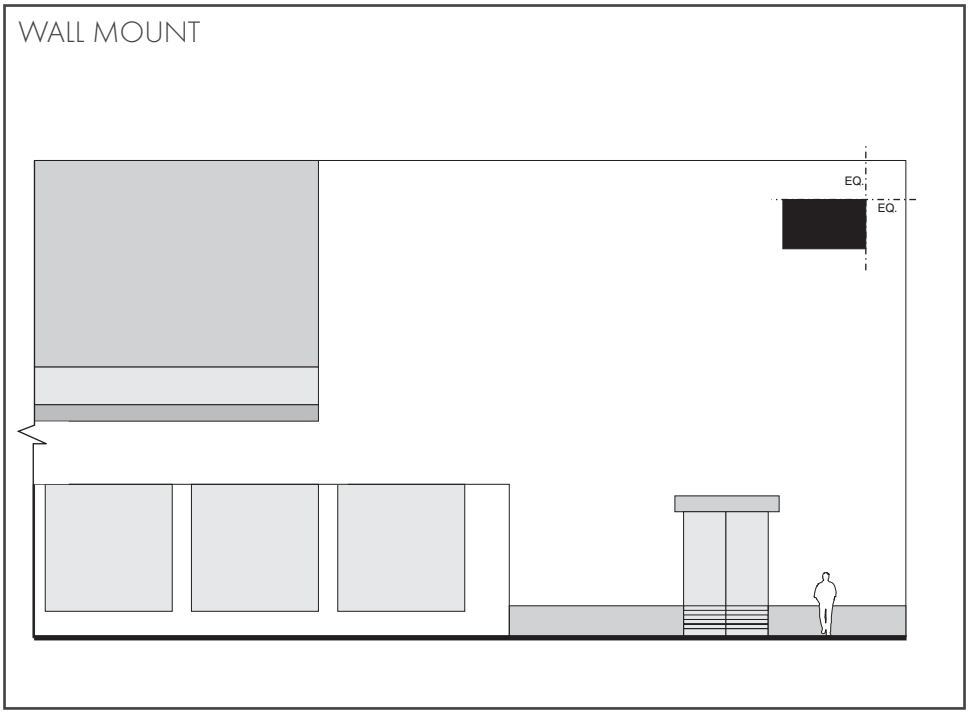
Not applicable. See section 3.5 - Sign Types Layouts pages 3-22 to 3-32 for specific leasing areas

#	Revision	Date

Directional - Primary: Support Roads 3.4.1

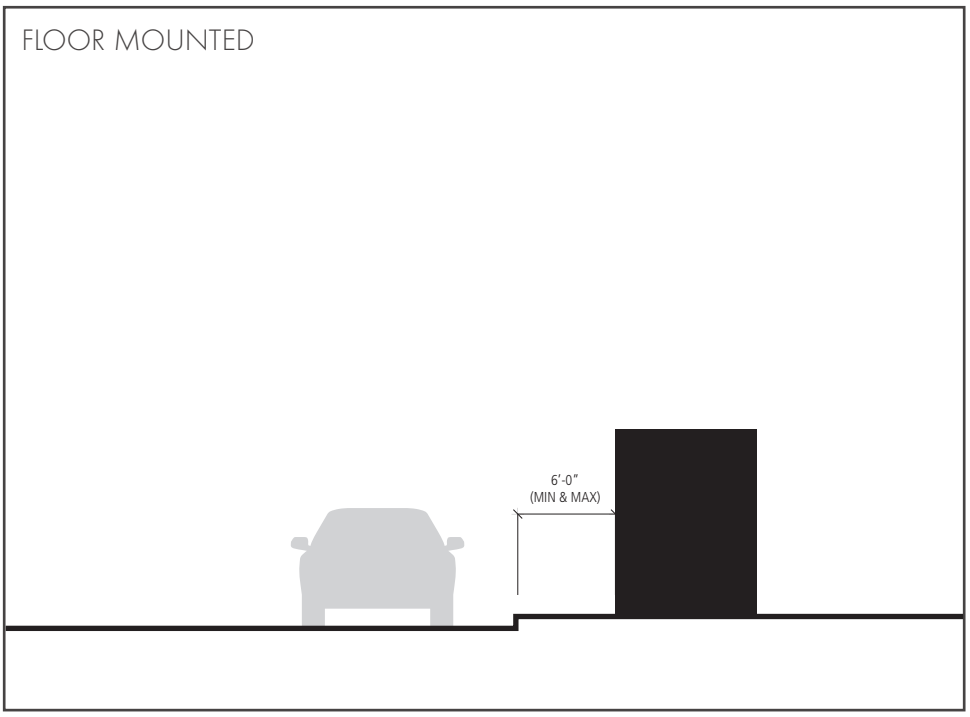


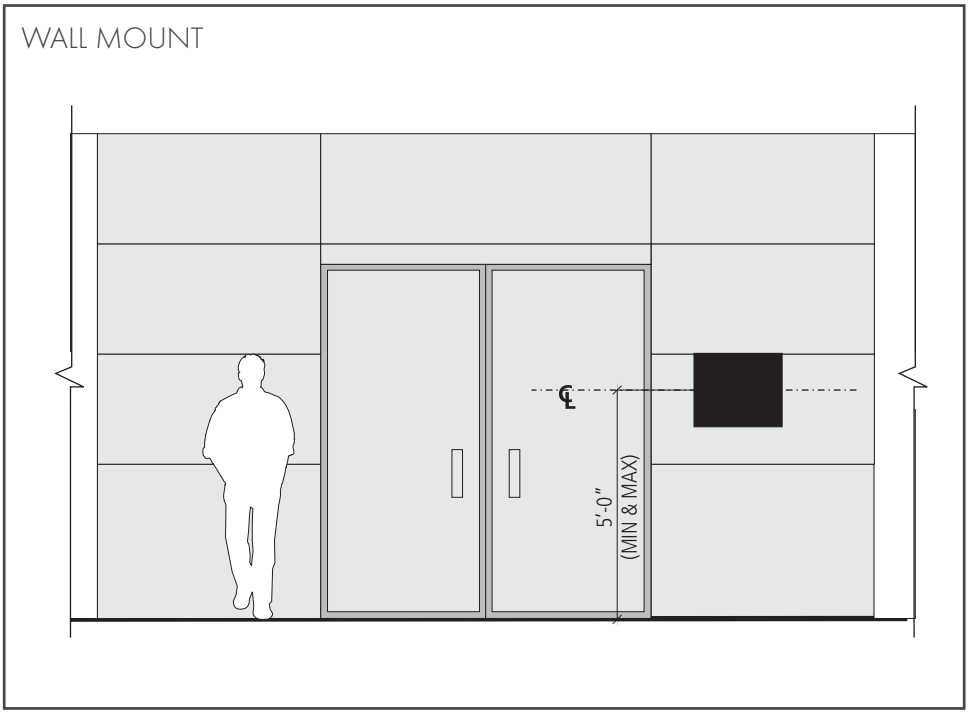
Identification - Primary: All Airport Services Buildings 3.4.2



#	Revision	Date

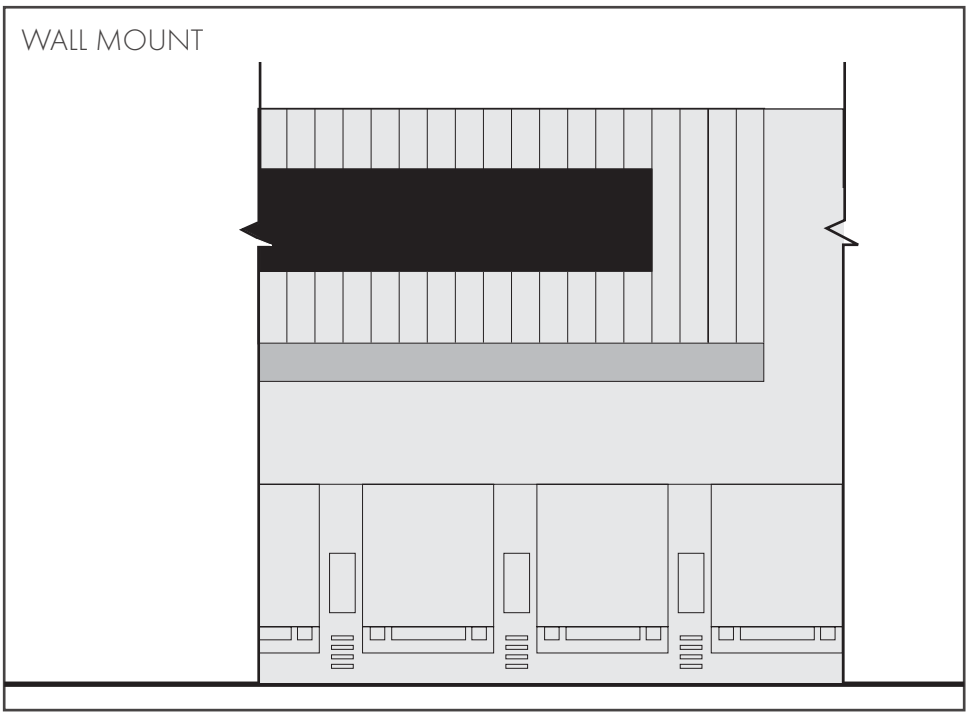
Identification - Secondary: All Airport Services Buildings 3.4.3

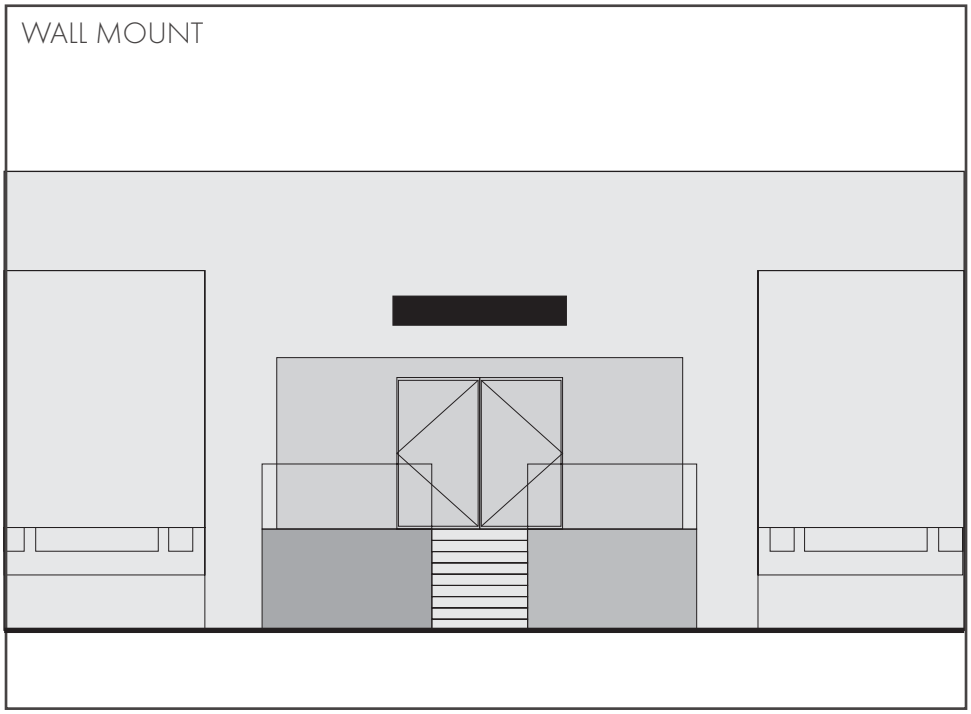




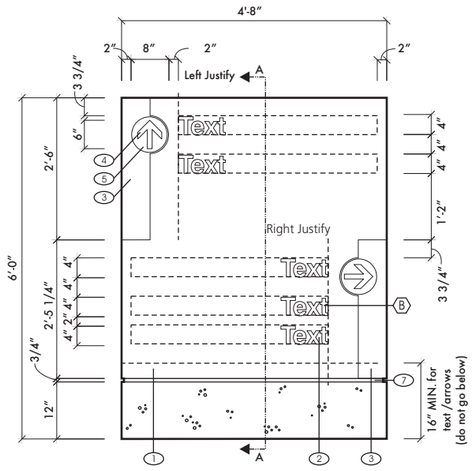
#	Revision	Date

Identification - Secondary: Only Cargo Buildings 3.4.4



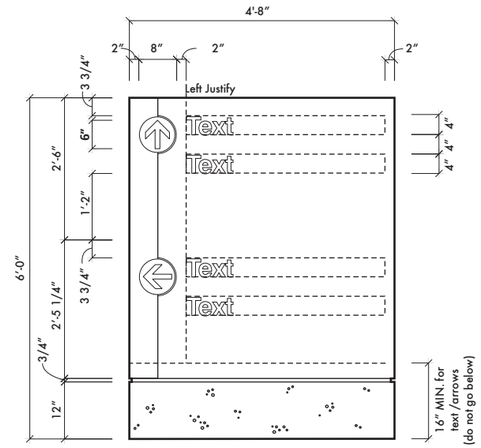


#	Revision	Date



SIDE VIEW



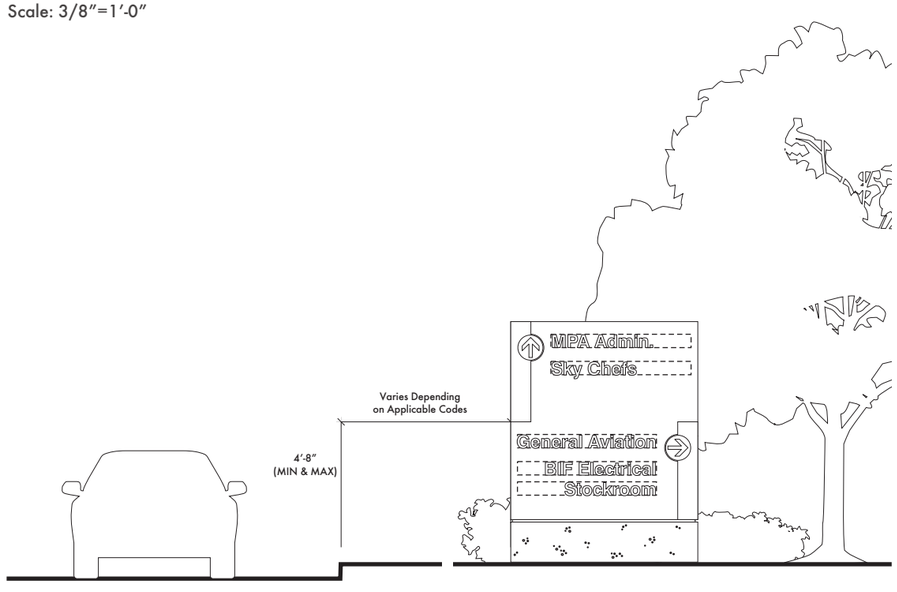


SIGN FACE LAYOUT

Scale: 3/8"=1'-0"

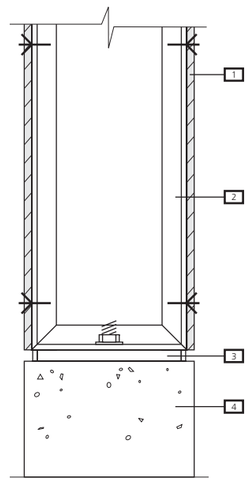
SIGN FACE ALTERNATE LAYOUT

Scale: 3/8"=1'-0"



ELEVATION

Scale: N. T. S.



DETAIL A - A (For Design Intent Only)

Scale: N. T. S.

Freestanding ST - 501

DESCRIPTION: Vehicular Roadside - Directional.

LOCATION: Roadside perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face structure with cast in place concrete footer.

LETTERING:

- A Swiss721 Black BT
- B Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:

1. Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
2. Text: 3M Diamond Grade Film #3990 or approved equal (White)
3. Band: Paint to match PMS425C (Grey)
4. Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
5. Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
6. Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
7. Reveal: Paint to match PMS425C (Grey)

GRAPHICS: N/A

ARROWS: 8" (Refer to Section 2.4.1)

MOUNTING: Freestanding

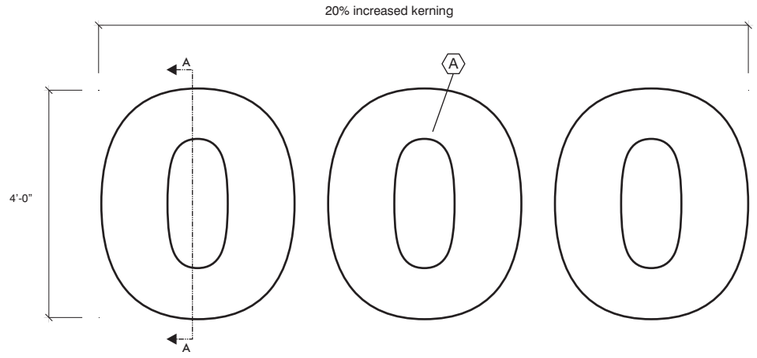
ILLUMINATION: Sign will be non illuminated.

NOTES:

1. .060 (1/8") aluminum sign face and side returns with machine cut top edge as shown. Paint sign faces and side returns first surface, matte finish. Message copy and arrows to be 3M Reflective film applied first surface (see color specification above). Mechanically attach to channel frame structure with countersunk screws, paint to match face
2. Aluminum channel frame cabinet. Mechanically attach to concrete base with appropriately sized cast-in-place thru-bolts (must be breakaway capable).
3. Break-formed two piece aluminum spacer reveal.
4. Cast-in-place concrete footer.

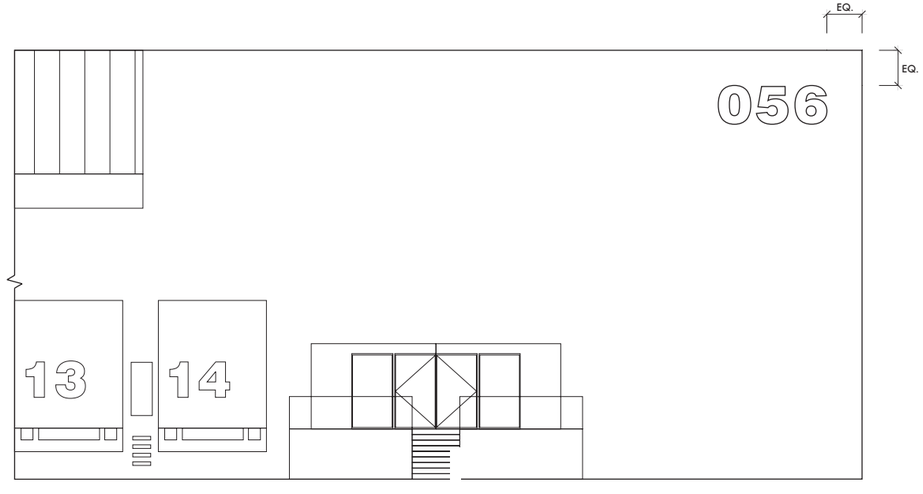
Directional - Primary 3.6.1

#	Revision	Date



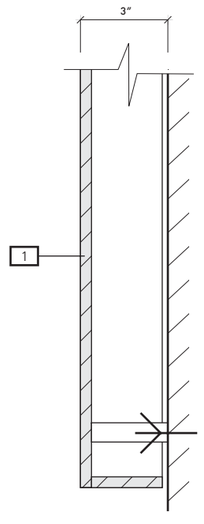
SIGN FACE LAYOUT

Scale: 3/8"=1'-0"



ELEVATION

Scale: N. T. S.



DETAIL A - A (For Design Intent Only)

Scale: N. T. S.

Wall Mount ST - 551

DESCRIPTION: Vehicular Facade - Building ID.

LOCATION: Mounted at top of building facade left/right justified at building corners.

MATERIALS: Aluminum dimensional plate letters.

LETTERING:
- (A) Swiss721 Black BT
- (B) Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:
- (1) Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
- (2) Text: 3M Diamond Grade Film #3990 or approved equal (White)
- (3) Band: Paint to match PMS425C (Grey)
- (4) Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
- (5) Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
- (6) Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
- (7) Reveal: Paint to match PMS425C (Grey)

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Pin Mounted.

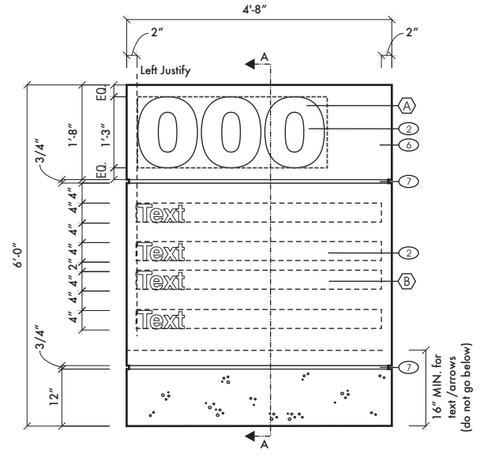
ILLUMINATION: Sign will be non illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

[1] Aluminum dimensional plate letter, painted first surface and returns, matte finish. Mechanically attach second surface from spacer posts to building fascia / wall.

#	Revision	Date

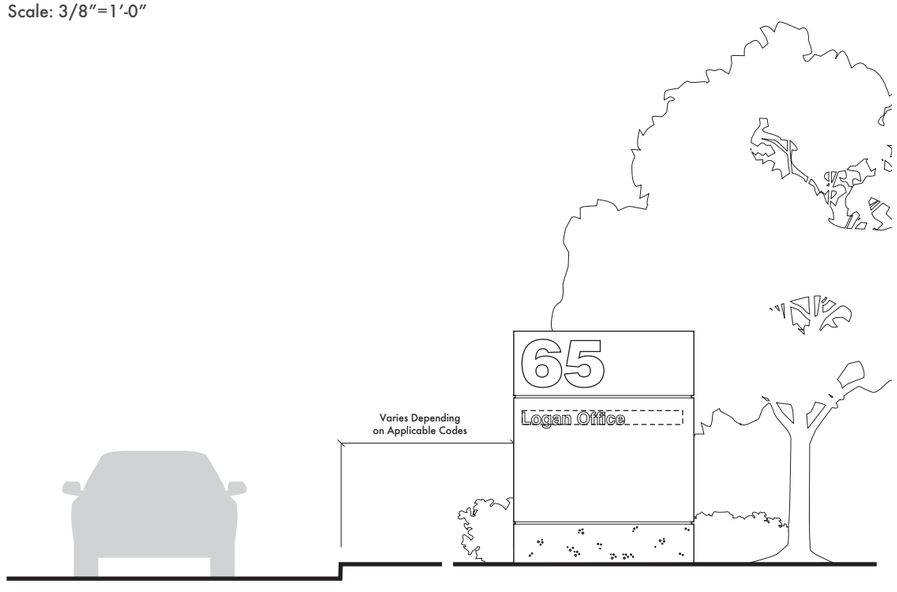


SIDE VIEW



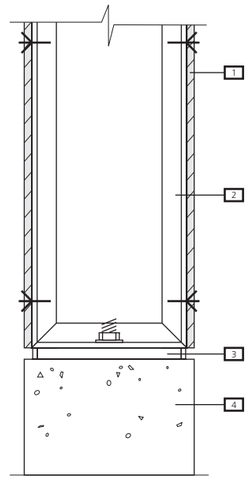
SIGN FACE LAYOUT

Scale: 3/8"=1'-0"



ELEVATION

Scale: N. T. S.



DETAIL A- A (For Design Intent Only)

Scale: N. T. S.

Freestanding ST - 552

DESCRIPTION: Vehicular Roadside - Building ID.

LOCATION: Roadside perpendicular to vehicular traffic.

MATERIALS: Aluminum sign face structure with cast in place concrete footer.

LETTERING:

- A Swiss721 Black BT
- B Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:

1. Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
2. Text: 3M Diamond Grade Film #3990 or approved equal (White)
3. Band: Paint to match PMS425C (Grey)
4. Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
5. Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
6. Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
7. Reveal: Paint to match PMS425C (Grey)

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Freestanding

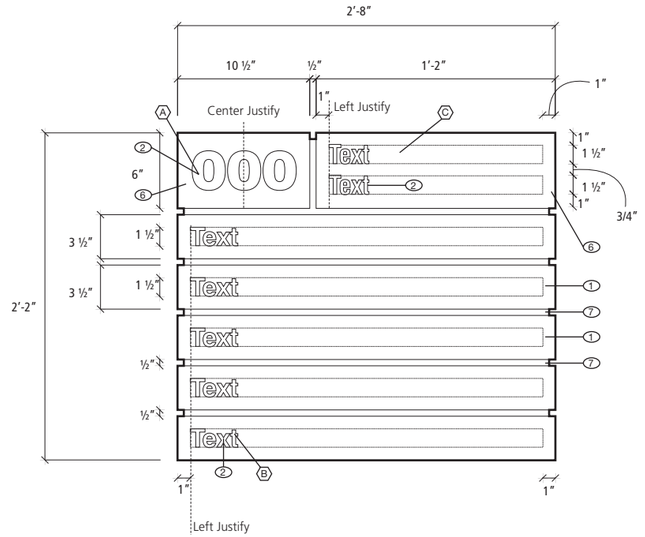
ILLUMINATION: Sign will be non illuminated.

NOTES:

1. .060 (1/8") aluminum sign face and side returns with machine cut top edge as shown. Paint sign faces and side returns first surface, matte finish. Message copy and arrows to be 3M Reflective film applied first surface (see color specification above). Mechanically attach to channel frame structure with countersunk screws, paint to match face
2. Aluminum channel frame cabinet. Mechanically attach to concrete base with appropriately sized cast-in-place thru-bolts (must be breakaway capable).
3. Break-formed two piece aluminum spacer reveal.
4. Cast-in-place concrete footer.

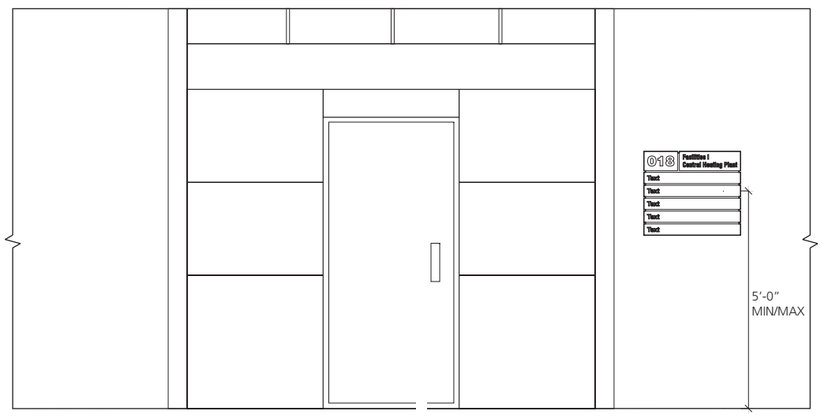
Identification - Secondary 3.6.2

#	Revision	Date



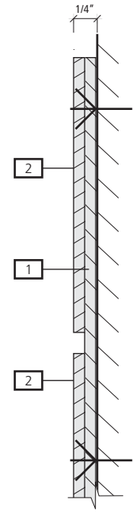
SIGN FACE LAYOUT

Scale: 1"=1'-0"



ELEVATION

Scale: N. T. S.



DETAIL A - A (For Design Intent Only)

Scale: N. T. S.

Wall Mount ST - 553

DESCRIPTION: Pedestrian Entry Door/Building Identification.

LOCATION: At primary entry doors to all support facility buildings.

MATERIALS: Photo polymer sign face with vinyl graphics.

LETTERING:

- A Swiss721 Black BT
- B Swiss 721 BT Bold
- C Swiss 721 BT Condensed

SYMBOLOGY: N/A

COLORS:

1. Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
2. Text: 3M Vinyl # or approved equal to match Massport Blue.
3. Band: Paint to match PMS425C (Grey)
4. Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
5. Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
6. Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
7. Reveal: Paint to match PMS425C (Grey)

GRAPHICS: N/A

ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: Sign will be non illuminated.

REMARKS: Refer to Section 2.5 for vinyl specifications.

NOTES:

1. .060 (1/8") photo-polymer sign face. Paint sign faces and side returns surface, matte finish.
2. .060 (1/8") photo-polymer sign face. Sign faces and side returns surface matte finish or aluminum as specified in above. Message copy to be 3M Reflective film applied first surface (see color specification above). Tenant logo artwork provided by others. Mechanically attach to wall.

Identification - Secondary 3.6.2

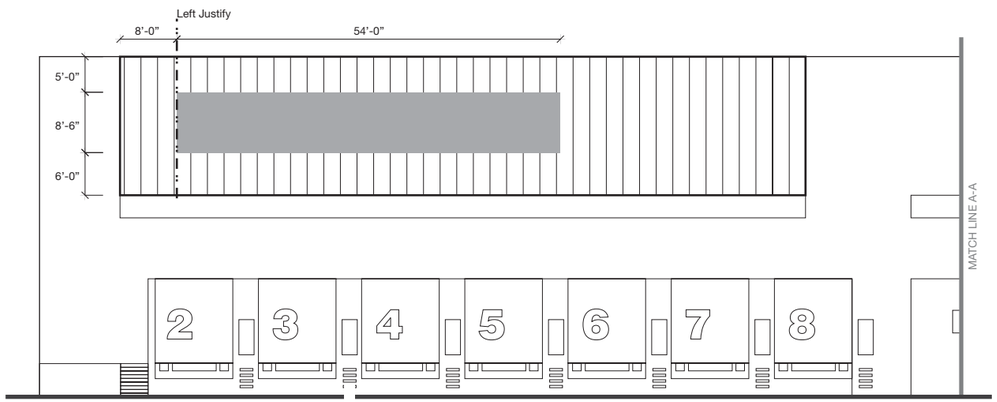
3.0 SIGN TYPES - A. SERVICES

#	Revision	Date



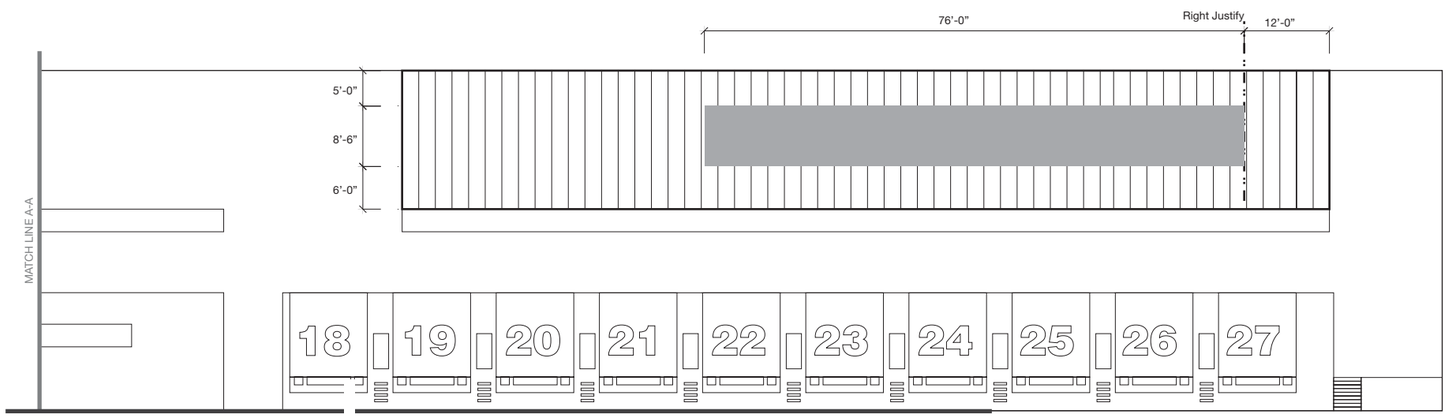
OVERALL ELEVATION - BUILDING 56: Single Tenant per section

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 56

Scale: N. T. S



PATRIAL ELEVATION - BUILDING 56

Scale: N. T. S.

Wall Mount ST - 561

DESCRIPTION: Vehicular Tenant Identification for Building 56 - Single Tenant per section.

LOCATION: On building facade as shown in this layout.

MATERIALS: N/A

LETTERING:

- (A) Swiss721 Black BT
- (B) Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:

1. Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
2. Text: 3M Diamond Grade Film #3990 or approved equal (White)
3. Band: Paint to match PMS425C (Grey)
4. Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
5. Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
6. Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
7. Reveal: Paint to match PMS425C (Grey)

GRAPHICS: Logo Artwork to be provided by each Tenant.

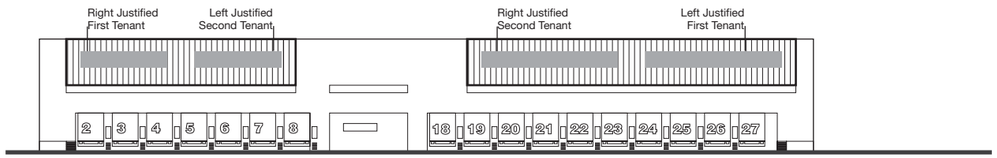
ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: N/A

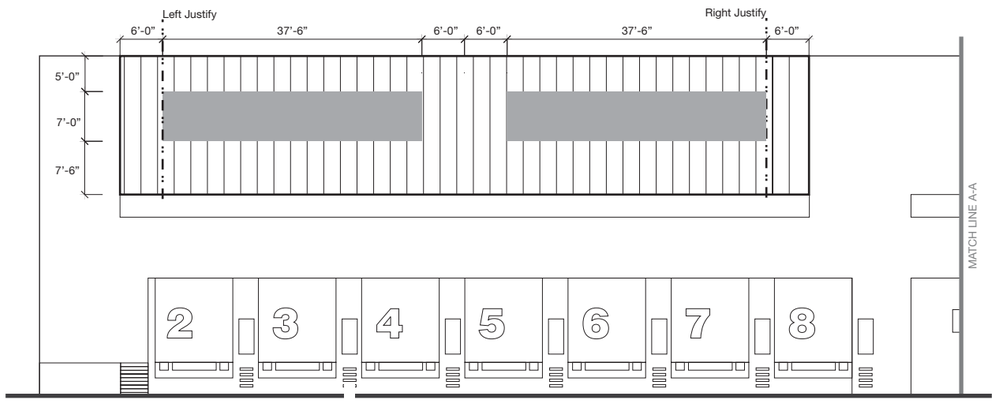
REMARKS: Refer to Section 2.5 for vinyl specifications.

#	Revision	Date



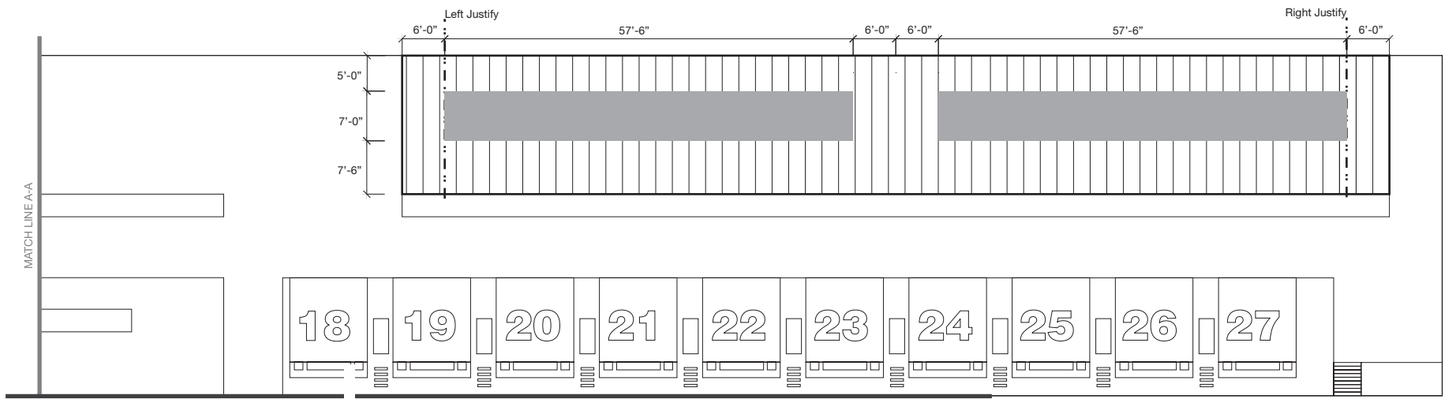
OVERALL ELEVATION - BUILDING 56: Multiple Tenants per section

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 56

Scale: N. T. S



PARTIAL ELEVATION - BUILDING 56

Scale: N. T. S.

Wall Mount — ST - 561

DESCRIPTION: Vehicular Tenant Identification for Building 56 - Multiple Tenants per section.

LOCATION: On building facade as shown in this layout.

MATERIALS: N/A

LETTERING:
- (A) Swiss721 Black BT
- (B) Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:
1. Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
2. Text: 3M Diamond Grade Film #3990 or approved equal (White)
3. Band: Paint to match PMS425C (Grey)
4. Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
5. Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
6. Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
7. Reveal: Paint to match PMS425C (Grey)

GRAPHICS: Logo Artwork to be provided by each Tenant.

ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: N/A

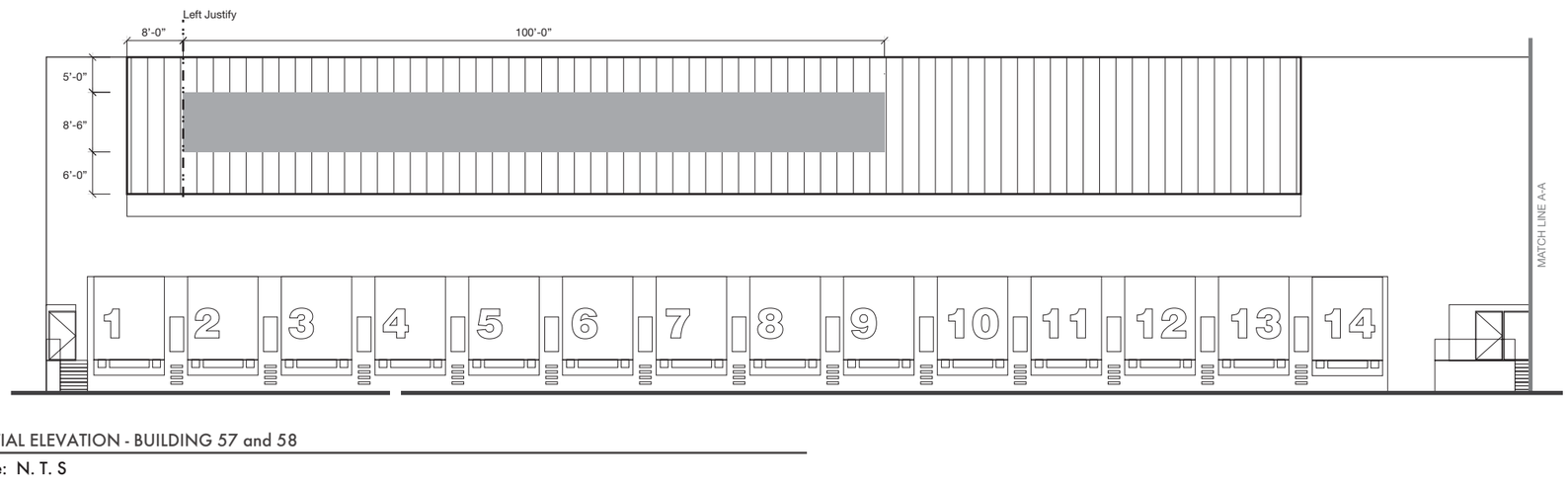
REMARKS: Refer to Section 2.5 for vinyl specifications.

#	Revision	Date



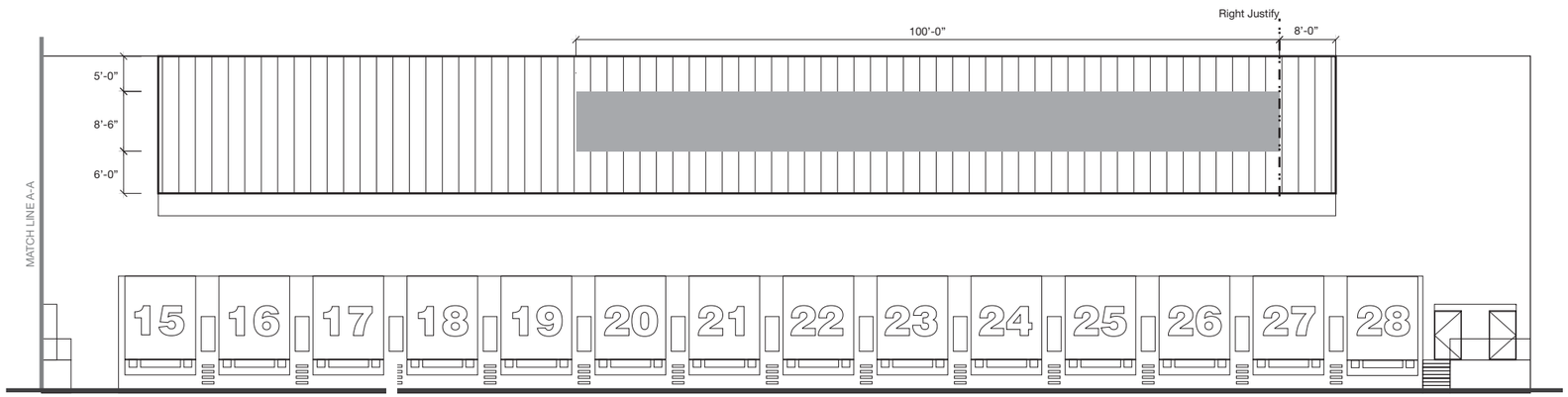
OVERALL ELEVATION - BUILDING 57 and 58: Single Tenant per section

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 57 and 58

Scale: N. T. S



PARTIAL ELEVATION - BUILDING 57 and 58

Scale: N. T. S.

Wall Mount ST - 561

DESCRIPTION: Vehicular Tenant Identification for Building 57 and 58 - Single Tenant per section.

LOCATION: On building facade as shown in this layout.

MATERIALS: N/A

LETTERING:
- A Swiss721 Black BT
- B Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:
1. Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
2. Text: 3M Diamond Grade Film #3990 or approved equal (White)
3. Band: Paint to match PMS425C (Grey)
4. Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
5. Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
6. Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
7. Reveal: Paint to match PMS425C (Grey)

GRAPHICS: Logo Artwork to be provided by each Tenant.

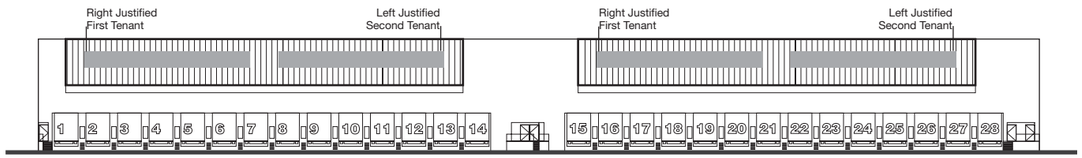
ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: N/A

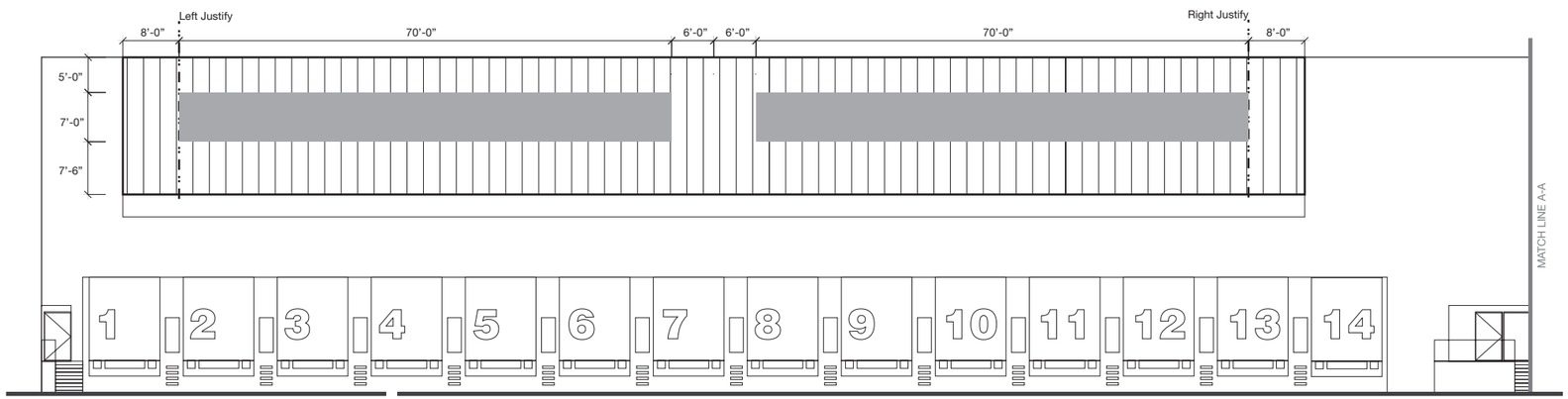
REMARKS: Refer to Section 2.5 for vinyl specifications.

#	Revision	Date



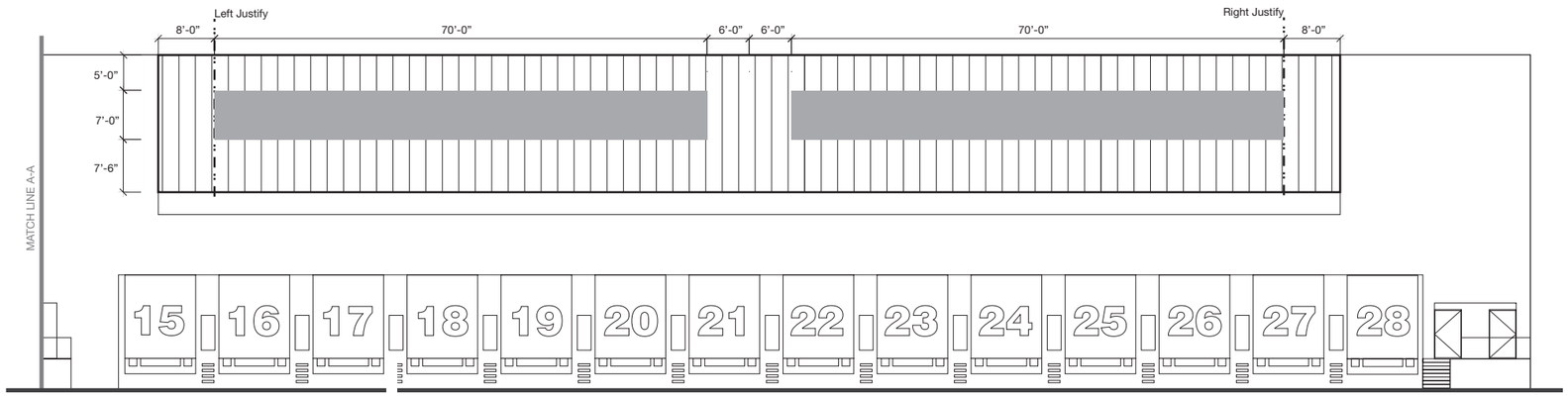
OVERALL ELEVATION - BUILDING 57 and 58: Multiple Tenants per section

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 57 and 58

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 57 and 58

Scale: N. T. S.

Wall Mount — ST - 561

DESCRIPTION: Vehicular Tenant Identification for Building 57 and 58 - Multiple Tenants per section.

LOCATION: On building facade as shown in this layout.

MATERIALS: N/A

LETTERING:
- A Swiss721 Black BT
- B Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:
1. Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
2. Text: 3M Diamond Grade Film #3990 or approved equal (White)
3. Band: Paint to match PMS425C (Grey)
4. Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
5. Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
6. Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
7. Reveal: Paint to match PMS425C (Grey)

GRAPHICS: Logo Artwork to be provided by each Tenant.

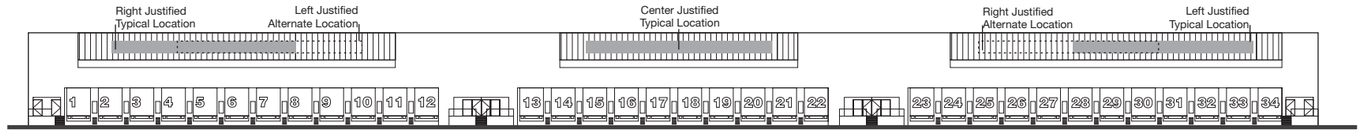
ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: N/A

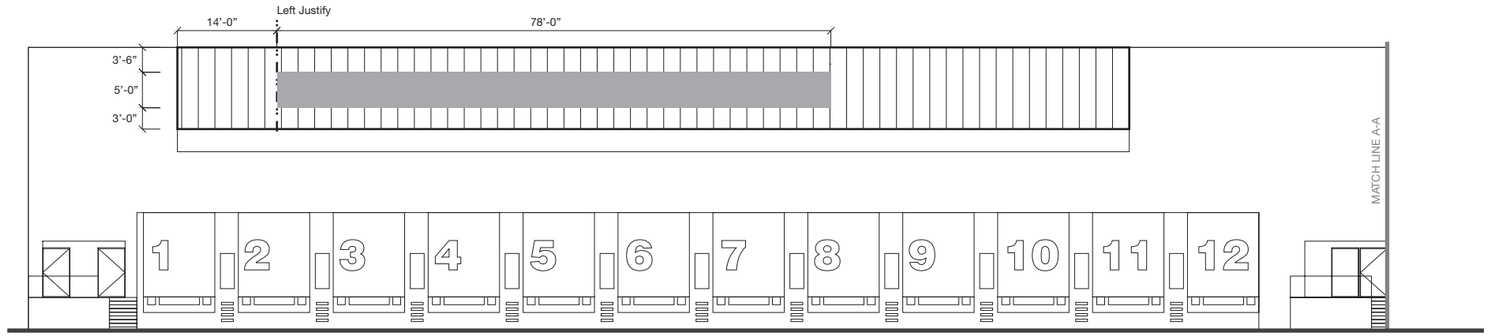
REMARKS: Refer to Section 2.5 for vinyl specifications.

#	Revision	Date



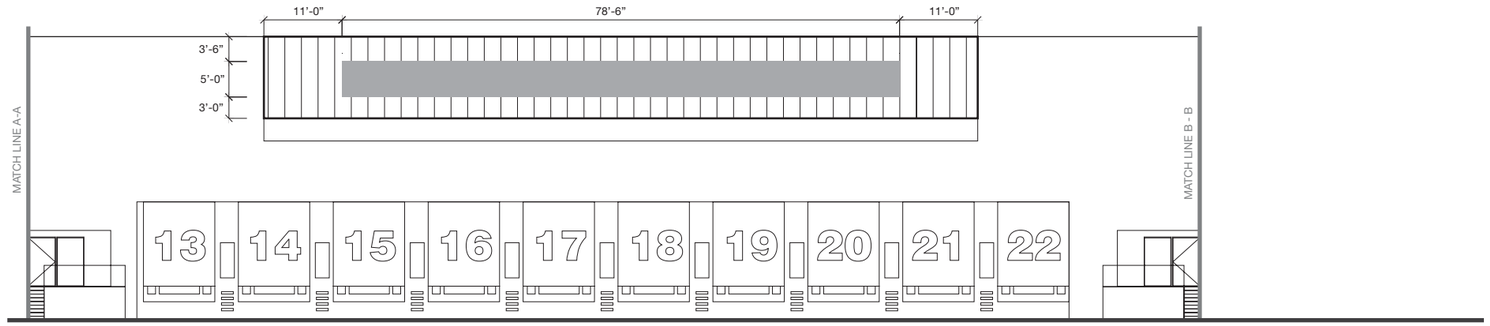
OVERALL ELEVATION - BUILDING 61: Single Tenant per section

Scale: N. T. S.



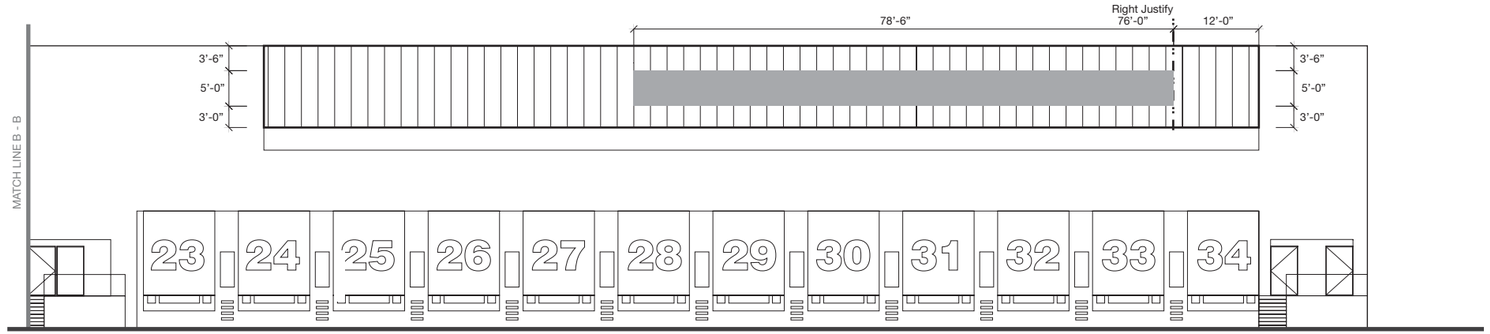
PARTIAL ELEVATION - BUILDING 61

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 61

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 61

Scale: N. T. S.

Wall Mount ST - 561

DESCRIPTION: Vehicular Tenant Identification for Building 61 - Single Tenant per section.

LOCATION: On building facade as shown in this layout.

MATERIALS: N/A

LETTERING:
- (A) Swiss721 Black BT
- (B) Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:
1. Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
2. Text: 3M Diamond Grade Film #3990 or approved equal (White)
3. Band: Paint to match PMS425C (Grey)
4. Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
5. Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
6. Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
7. Reveal: Paint to match PMS425C (Grey)

GRAPHICS: Logo Artwork to be provided by each Tenant.

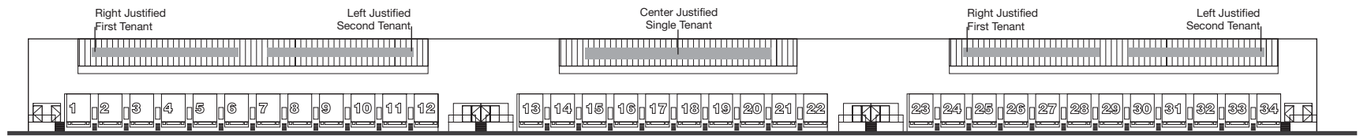
ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: N/A

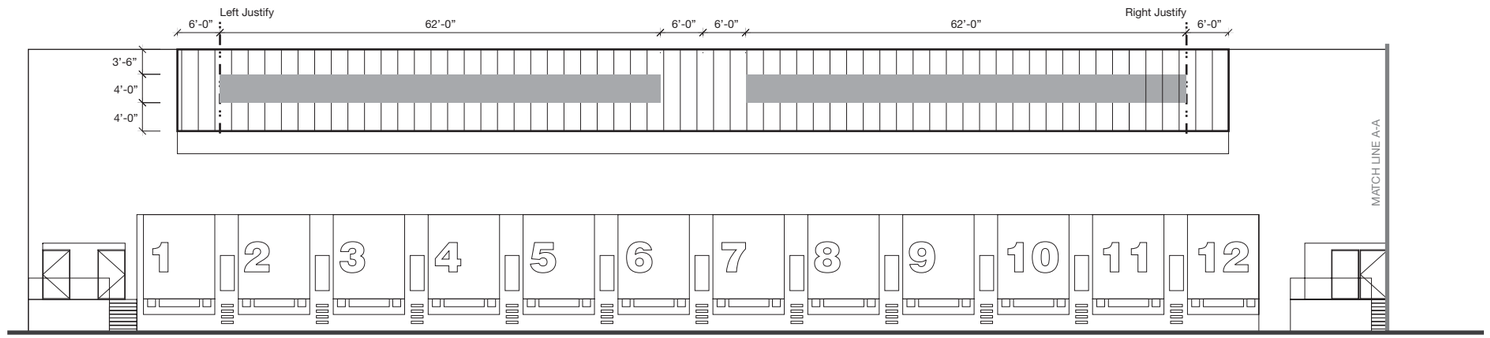
REMARKS: Refer to Section 2.5 for vinyl specifications.

#	Revision	Date



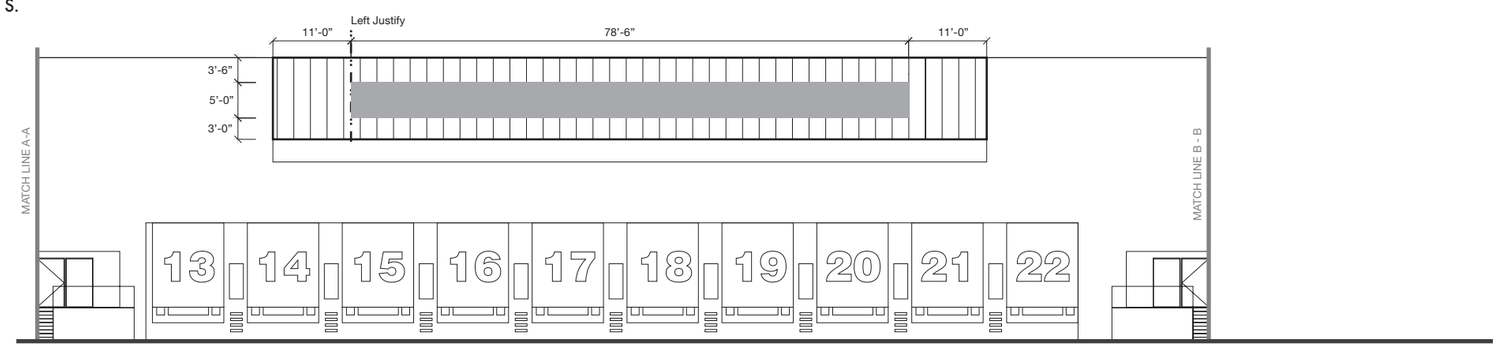
OVERALL ELEVATION - BUILDING 61: Multiple Tenants per section

Scale: N. T. S.



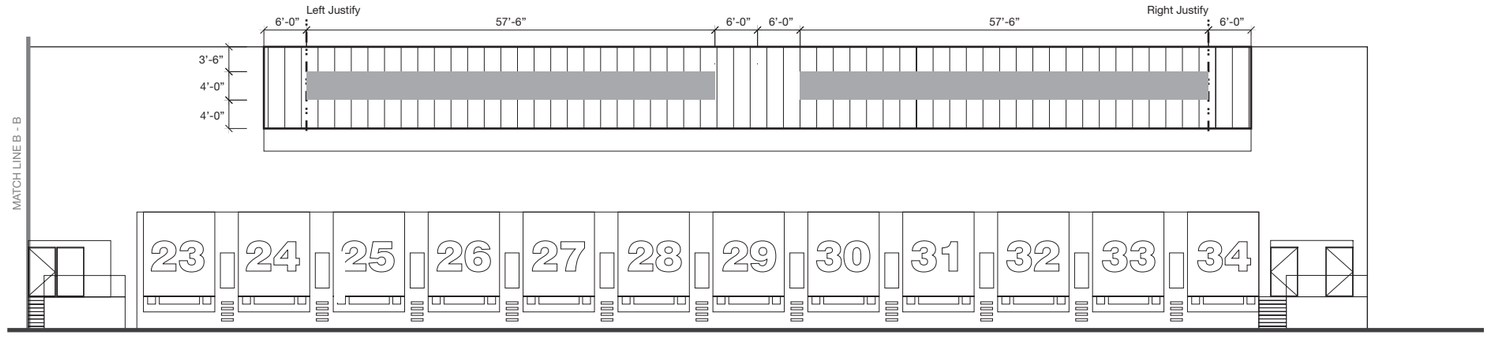
PARTIAL ELEVATION - BUILDING 61

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 61

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 61

Scale: N. T. S.

Wall Mount ST - 561

DESCRIPTION: Vehicular Tenant Identification for Building 61 - Multiple Tenants per section.

LOCATION: On building facade as shown in this layout.

MATERIALS: N/A

LETTERING:
- (6) (8) Swiss721 Black BT / Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:
1. Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
2. Text: 3M Diamond Grade Film #3990 or approved equal (White)
3. Band: Paint to match PMS425C (Grey)
4. Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
5. Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
6. Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
7. Reveal: Paint to match PMS425C (Grey)

GRAPHICS: Logo Artwork to be provided by each Tenant.

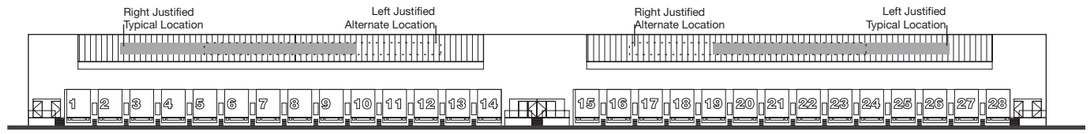
ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: N/A

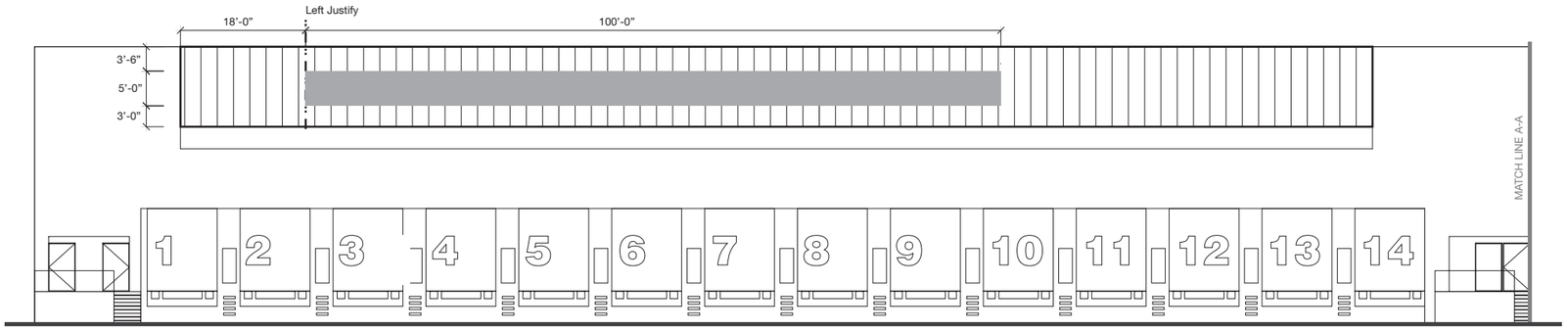
REMARKS: Refer to Section 2.5 for vinyl specifications.

#	Revision	Date



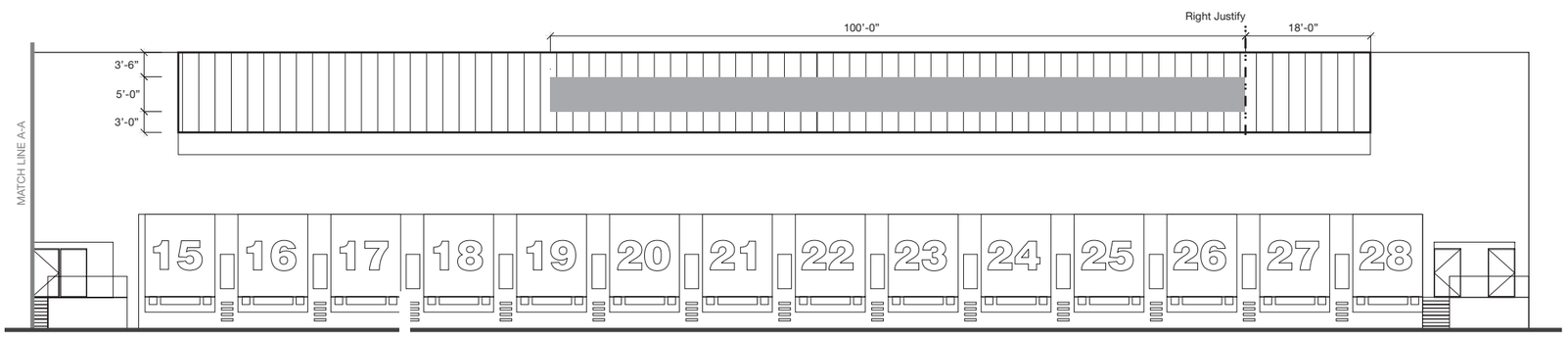
OVERALL ELEVATION - BUILDING 62: Single Tenant per section

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 62

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 62

Scale: N. T. S.

Wall Mount ST - 561

DESCRIPTION: Vehicular Tenant Identification for Building 62 - Single Tenant per section.

LOCATION: On building facade as shown in this layout.

MATERIALS: N/A

LETTERING:
- (A) Swiss721 Black BT
- (B) Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:
1. Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
2. Text: 3M Diamond Grade Film #3990 or approved equal (White)
3. Band: Paint to match PMS425C (Grey)
4. Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
5. Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
6. Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
7. Reveal: Paint to match PMS425C (Grey)

GRAPHICS: Logo Artwork to be provided by each Tenant.

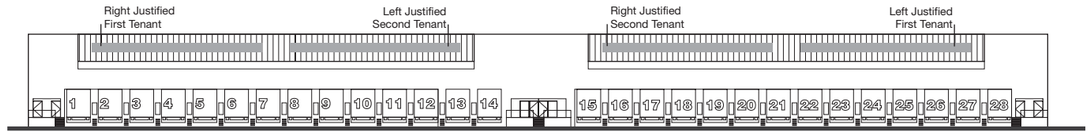
ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: N/A

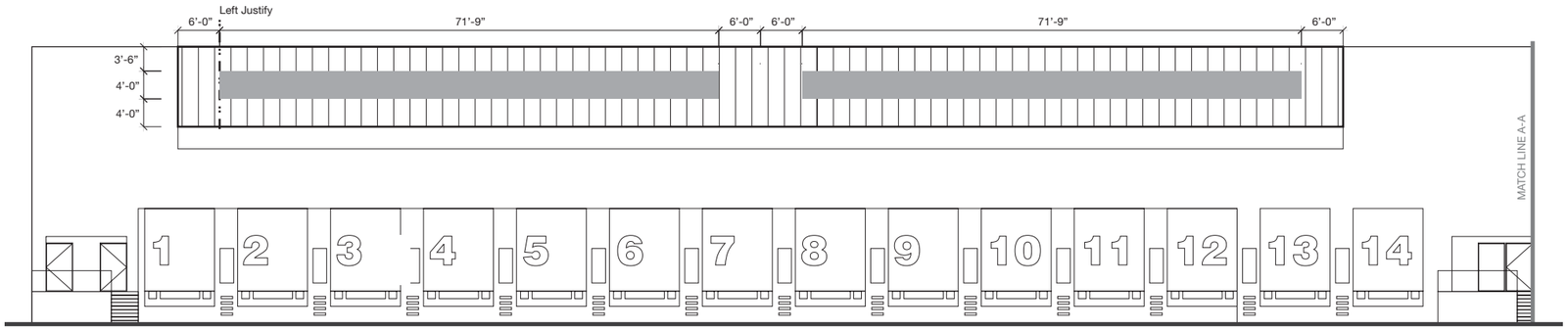
REMARKS: Refer to Section 2.5 for vinyl specifications.

#	Revision	Date



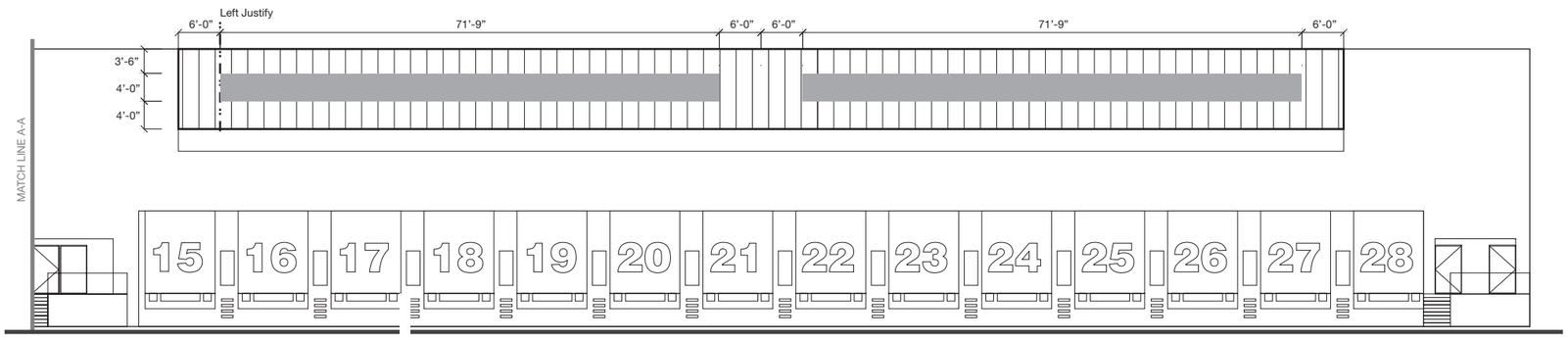
OVERALL ELEVATION - BUILDING 62: Multiple Tenant per section

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 62

Scale: N. T. S.



PARTIAL ELEVATION - BUILDING 62

Scale: N. T. S.

Wall Mount ST - 561

DESCRIPTION: Vehicular Tenant Identification for Building 62 - Multiple Tenants per section.

LOCATION: On building facade as shown in this layout.

MATERIALS: N/A

LETTERING:
- (A) Swiss721 Black BT
- (B) Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:
- (1) Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
- (2) Text: 3M Diamond Grade Film #3990 or approved equal (White)
- (3) Band: Paint to match PMS425C (Grey)
- (4) Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
- (5) Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
- (6) Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
- (7) Reveal: Paint to match PMS425C (Grey)

GRAPHICS: Logo Artwork to be provided by each Tenant.

ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: N/A

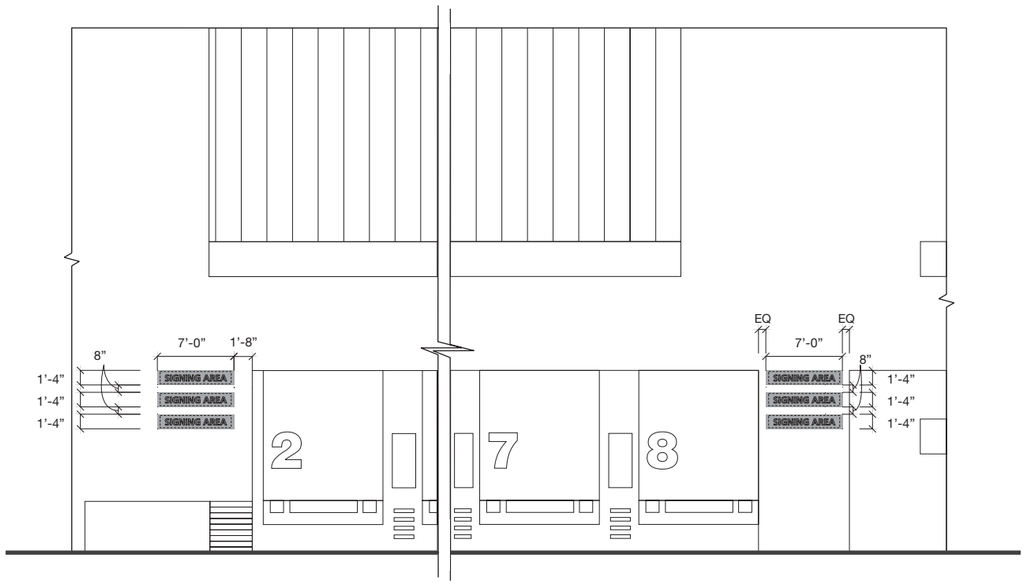
REMARKS: Refer to Section 2.5 for vinyl specifications. specifications..

#	Revision	Date



SIGNING AREA LAYOUT

Scale: 3/8"=1'-0"



PARTIAL ELEVATION - BUILDING 56

Scale: N. T. S.

Wall Mount ST - 562

DESCRIPTION: Pedestrian Tenant Identification for building 56.

LOCATION: On building facade as shown in this layout.

MATERIALS: N/A

LETTERING:

A Swiss721 Black BT

B Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:

1. Background: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
2. Text: 3M Diamond Grade Film #3990 or approved equal (White)
3. Band: Paint to match PMS425C (Grey)
4. Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
5. Arrow Circle: Paint Black Matthew's Paint #78A-1A or approved equal (Jet Black)
6. Header Panel: Paint Matthew's Paint #41-342 Brushed Aluminum
7. Reveal: Paint to match PMS425C (Grey)

GRAPHICS: Logo Artwork to be provided by each Tenant.

ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: N/A

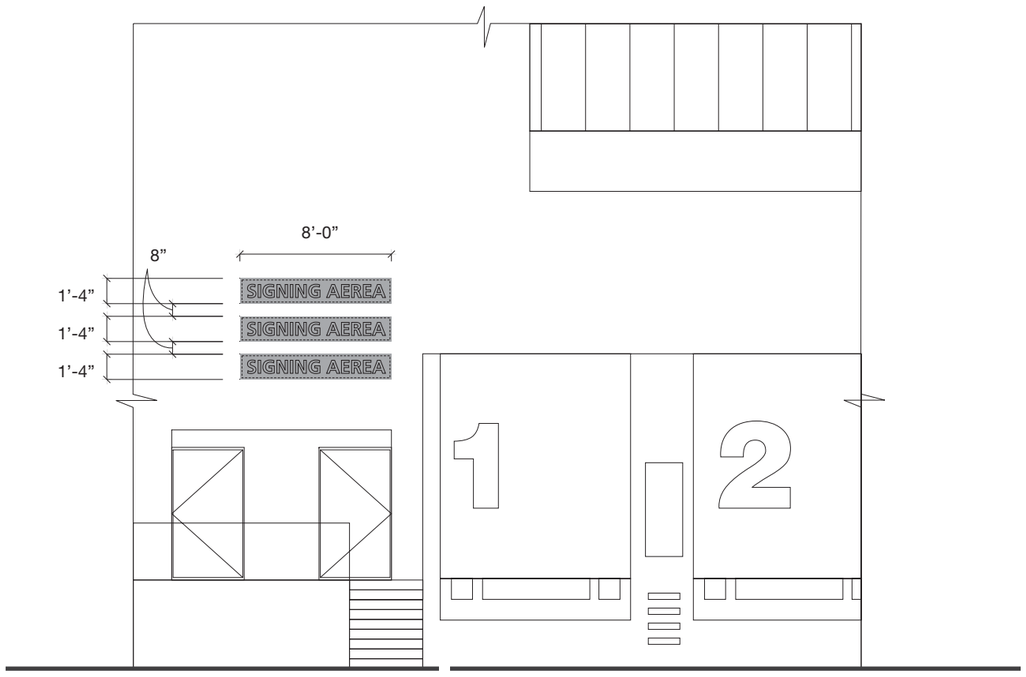
REMARKS: Refer to Section 2.5 for vinyl specifications.

#	Revision	Date



SIGNING AREA LAYOUT

Scale: 3/8”=1’-0”



PARTIAL ELEVATION - BUILDING 57, 58, 61, and 62

Scale: N. T. S.

Wall Mount ST - 563

DESCRIPTION: Pedestrian Tenant Identification for building 57, 58, 61, and 62.

LOCATION: On building facade as shown in this layout right / left justified.

MATERIALS: N/A

LETTERING:
- (6) Swiss721 Black BT
- (8) Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:
- (1) Background: Paint Black Matthew’s Paint #78A-1A or approved equal (Jet Black)
- (2) Text: 3M Diamond Grade Film #3990 or approved equal (White)
- (3) Band: Paint to match PMS425C (Grey)
- (4) Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
- (5) Arrow Circle: Paint Black Matthew’s Paint #78A-1A or approved equal (Jet Black)
- (6) Header Panel: Paint Matthew’s Paint #41-342 Brushed Aluminum
- (7) Reveal: Paint to match PMS425C (Grey)

GRAPHICS: Logo Artwork to be provided by each Tenant.

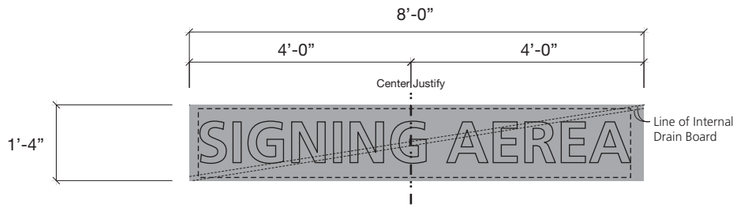
ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: N/A

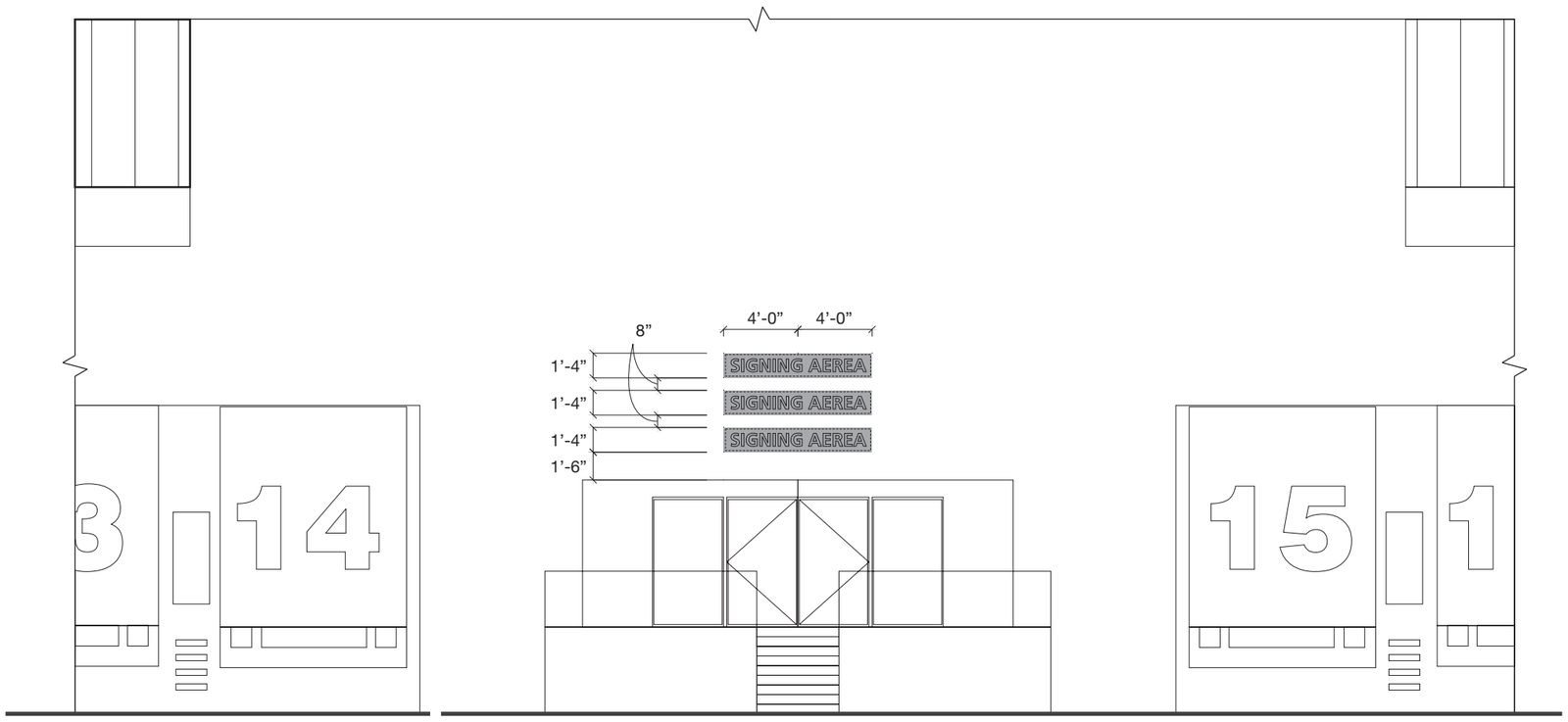
REMARKS: Refer to Section 2.5 for vinyl specifications.

#	Revision	Date



SIGNING AREA LAYOUT

Scale: 3/8”=1’-0”



PARTIAL ELEVATION - BUILDING 57, 58, 61, and 62

Scale: N. T. S.

Wall Mount — ST - 563

DESCRIPTION: Pedestrian Tenant Identification for building 57, 58, 61, and 62.

LOCATION: On building facade as shown in this layout right / left justified.

MATERIALS: N/A

LETTERING:
- (6) Swiss721 Black BT
- (8) Swiss 721 BT Bold

SYMBOLOGY: N/A

COLORS:
- (1) Background: Paint Black Matthew’s Paint #78A-1A or approved equal (Jet Black)
- (2) Text: 3M Diamond Grade Film #3990 or approved equal (White)
- (3) Band: Paint to match PMS425C (Grey)
- (4) Arrow: 3M Diamond Grade Film #3990 or approved equal (White)
- (5) Arrow Circle: Paint Black Matthew’s Paint #78A-1A or approved equal (Jet Black)
- (6) Header Panel: Paint Matthew’s Paint #41-342 Brushed Aluminum
- (7) Reveal: Paint to match PMS425C (Grey)

GRAPHICS: Logo Artwork to be provided by each Tenant.

ARROWS: N/A

MOUNTING: Wall Mounted.

ILLUMINATION: N/A

REMARKS: Refer to Section 2.5 for vinyl specifications.

#	Revision	Date

It is important to summarize the previous signage related efforts, in an attempt to clarify the criteria for which this document is based and for a general understanding of the efforts that have lead up to the updating of the Boston Logan International Airport Signage Standards and Guidelines project.

Background

Boston Logan International Airport (BOS) is currently the 18th busiest airport in the USA and New England's primary airport, with over 26 million passengers per year using the Airport. By the year 2010, over 37 million passengers per year are expected to use the Airport's facilities.

Boston Logan International Airport is a conjunction of five connected individual terminals (Terminals A, B, C, D and E) and two major parking garages (Central Parking and Terminal B Parking). Each one of these facilities has its own architectural style, which may become an issue when trying to implement signage that is consistent throughout the Airport. Different signage systems have been implemented to custom fit the conditions of each facility resulting in a variety of sign types and sizes without uniform systematic characteristics.

As of February 2005, the issuance of this document, there are several "systems" in place that create a variation in signage conditions. The "older" system developed by Peter Muller-Munk in 1990 is still within place in several areas of the Airport (Terminal C, for example). In addition, Terminal B and its associated parking areas have an "older" signage system that was developed and implemented by the airlines.

As part of the Logan Modernization program for major landside improvements (terminals and roadways), Massport decided to establish Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft) submitted in May 2002 by Karen Lewis Design, Inc.(Graphic Standards) in an effort to create a seamless and cohesive signage system for the Airport.

These Graphic Standards have been and are continuously being implemented in sections of the Airport (Ex. Terminal E, B/C walkways). Future projects such as MPA Project No. L219-C3 Central Parking Garage Repairs and Expansion and Terminal A Redevelopment are being signed based on Karen Lewis Sign Program Guidelines and Graphic Standards.

Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft):
This program consists of a variety of sign type families for terminals, curbside, roadways and Airport service buildings. Karen Lewis Design Inc. Provided Massport with four volumes total that reference specifically to each one of these areas:

- Volume 1: Passenger Terminals Interior
- Volume 2: Passenger Terminals Curbside (Exterior)
- Volume 3: Airport Roadways (Terminal Roadways, Egress Roadways and Service Roads)
- Volume 4: Airport Service Buildings (Support Facilities)

#	Revision	Date

Background cont'd

Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft) cont'd:
Each set of sign families consisted of a variety of Directional, Informational, and Identification signs. However; a comprehensive family of identification sign types addressed for Terminals, Gates, and other important facilities/functions is not included in the program.

The existing Graphic Standards propose the use of terminal icons to identify the terminals. These icons carry the color and the letter designated for each terminal (Terminal A: Blue, Terminal B: Red, Terminal C: Green, Terminal D: Orange and Terminal E: Purple). These colors are used in directional signs in the roadways and the terminals.

Conceptual Report:
In an effort to make the passenger's wayfinding experience more pleasant throughout Boston Logan International Airport, the Massachusetts Port Authority (Massport) has decided to evaluate the feasibility of an alternate "color coded system" for the signage program and to review the existing Graphic Standards.

Massport has enlisted the services of Carter & Burgess, Inc (CB) to evaluate the possibility of an alternate "color coded system" and to provide examples of different "color coded systems" currently being implemented at other airports around the country.

The analysis of the existing "color-coded" systems within other airports, that Carter & Burgess, Inc reviewed, consisted of examples from the current Amsterdam's Schiphol International Airport. This specific system utilizes three sign background colors to differentiate between three primary airport function groupings: (yellow) flight services, (green) leaving the airport, and (black) auxiliary services.

Carter and Burgess, Inc summarized and evaluated the "color coded" system, reviewed the in-place signage conditions and current Graphic Standards at BOS and provided Massport with recommendations and alternatives to improve the Airport's signage system. The alternatives and brief description are as follows:

ALTERNATIVE 1 - MODIFY / PROCEED WITH CURRENT GRAPHIC STANDARDS:
Update and further standardize the current Graphic Standards along with additional solutions to enhance the overall program. There are areas on these standards that require enhancement, such as curbside color-coding, messaging on overhead roadways, addition of supplemental sign types, etc. In addition, there is a need to include dynamic signage, VMS, and a signage database.

ALTERNATIVE 2 DEVELOP NEW COLOR-CODED SIGN PROGRAM:
Re-evaluate the current sign program airport-wide and revise the system to be in compliance with the color-coding based on the "Schiphol-model".

ALTERNATIVE 3 HYBRID SIGNAGE SYSTEM:
Integrate the new color-coding principles with the current Graphic Standards. The alternative would include implementing color-coding to a lesser degree than used at Schiphol or NY/NJ, but still utilize the methodology of the system. Color-coding only the international symbols or using color-coding rule lines/ bands may achieve this.

#	Revision	Date

Background con't.

Conceptual Report con't:
The complete list of conclusions and recommendations as well as the results of the study can be found in the "Conceptual Report: Color-Coded Wayfinding Study" submitted to Boston Logan International Airport on April 2003.

Wayfinding Analysis and Plan:
Based on the recommendations and alternatives proposed by CB in the "Conceptual Report: Color-Coded Wayfinding Study", Massport commissioned Carter and Burgess to develop a Wayfinding Analysis and Plan in July 2003.

The purpose of the Wayfinding Analysis and Plan was to identify and determine key wayfinding decision points for passengers throughout Boston Logan International Airport for proper wayfinding signing. This analysis included terminals, curbside, garage, frontage roadways, etc. , and develop a plan of recommendations showing conceptually how to improve these problematic areas. CB performed a series of site surveys at BOS in order to identify and determine major circulation patterns throughout the airport as well as major decision points.

The data collected during those visits through photos, videos, surveys, meetings and drawings was used to determine key recommendations that would improve the wayfinding and signage system at the Airport.

In general, the study found that there are signage issues, short-term and long-term, that need to be addressed at BOS. CB provided Massport with general recommendations that would improve the wayfinding and signage system at BOS in both short-term and long-term bases.

SHORT-TERM RECOMMENDATIONS:
As part of the short-term solutions, Carter & Burgess, Inc determined typical problematic areas for proper wayfinding and signage throughout the Airport and recommend interim solutions for each one of these situations.

CB provided Massport with temporary solutions for terminals, curbside, parking and roadways that can be found in the packages listed below:

- Short-Term Recommendations Terminals: Submitted February 16th, 2004
- Short-Term Recommendations Curbside: Submitted March 16th, 2004
- Short-Term Recommendations Parking: Submitted March 16th, 2004
- Short-Term Recommendations Roadways: Submitted March 23rd, 2004

LONG-TERM RECOMMENDATIONS:
As part of the long-term solutions, CB studied the current signage systems being used at BOS and revised the current Graphic Standards that are being implemented in order to provide the Airport with long-term recommendations. These recommendations included changes in the nomenclature, terminology, message hierarchy, international symbols, color-coded system, sign types and other important issues that would affect the signage system throughout the Airport.

The long-term recommendations were presented to the BOS Signage Committee in different occasions through four Signage Committee Work-Sessions:

#	Revision	Date

Background con't.

Wayfinding Analysis and Plan cont'd:

1. Signage Committee Work-Session No.1 held on 10/29/03
2. Signage Committee Work-Session No.2 held on 12/19/03
3. Signage Committee Work-Session No.3 held on 04/28/04

The decisions made by the Committee during the Work-Sessions determined the direction of the Signage Standards and Guidelines. Detailed recommendations regarding Terminology, Message Hierarchy, International Symbols, Typography, etc,. can be found in the Section 2.0 Graphic Standards of the Signage Standards and Guidelines for each area.

Signage Standards and Guidelines:
Upon the completion of the Wayfinding Analysis and Plan CB was commissioned for a third task at BOS. This task consisted of revising and modifing the Logan International Airport Sign Program Guidelines and Graphic Standards (90% Draft). This document is the second of five volumes of the Signage Standards and Guidelines developed by CB.

The objective of the Signage Standards and Guidelines is to provide a set of design standards, requirements and design criteria to be used for all interior and exterior signing applications at BOS. The document will be the primary reference for those designing and implementing the Airport's capital improvement program. Criteria relating to terminology/symbology, graphic layout, letter style, arrow size, size relationships, color relationships, sign types, mounting conditions, etc. is set forth in these standards and guidelines.

Signs Regulated by the Documents:

- All exterior and interior directional, identification, and informational signs for public throughout the airport property:
  - Access Roadway
  - Airport Roadway
  - Curbside (Upper, Lower)
  - Ground Transportation
  - Terminal(s)
  - Parking Garage and Sub-ordinate Parking Facilities
  - Airport Services Facilities

There are five "volumes" in the total set of Graphics Standards and Guidelines for BOS. Each volume is a separate reference to a different area(s) or new development as follows:

- Volume 1: Terminals
- Volume 2: Curbside and Ground Transportation
- Volume 3: Parking
- Volume 4: Roadways
- Volume 5: Airport Services Buildings

#	Revision	Date

Background, con't

Based on the determination of required messages in the various areas of the airport property and the relationship of message function to message hierarchy, a numbering system was developed to classify sign types. The following list outlines all of the sign type series used at BOS.

Series 100 - Terminal
- Directional 101 - 150
- Identification 151 - 180
- Informational 181 - 199

Series 200 - Curbside/Ground Transportation
- Directional 201 - 250
- Identification 251 -280
- Informational 281 - 299

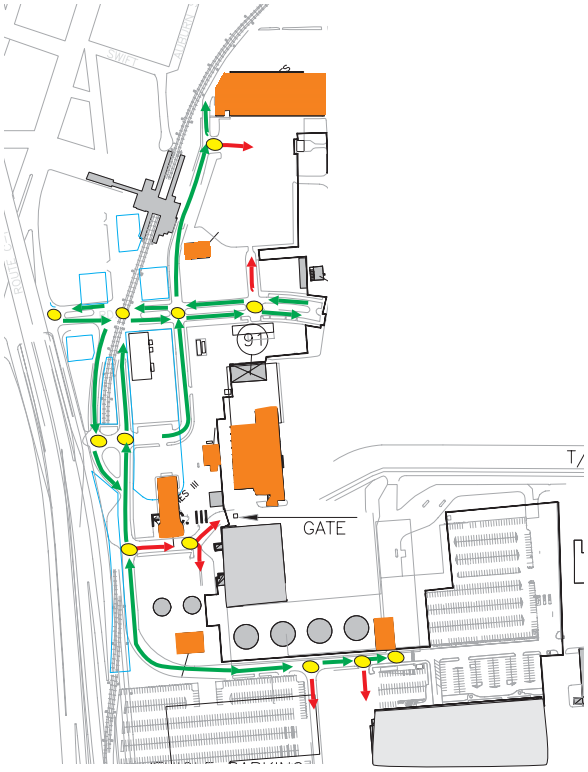
Series 300 - Parking
- Directional 301 - 350
- Identification 351 -380
- Informational 381 - 399

Series 400 - Roadways
- Directional 401 - 450
- Identification 451 - 480
- Informational 481 - 499

Series 500 - Airport Services Buildings
- Directional 501 - 550
- Identification 551 - 580
- Informational 581 - 599

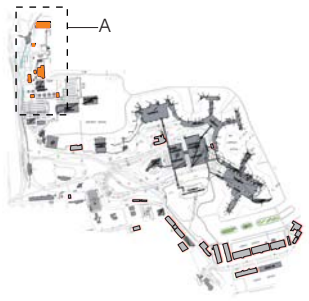
#	Revision	Date

Circulation Diagrams



Airport Services Buildings

Airport Key Plan



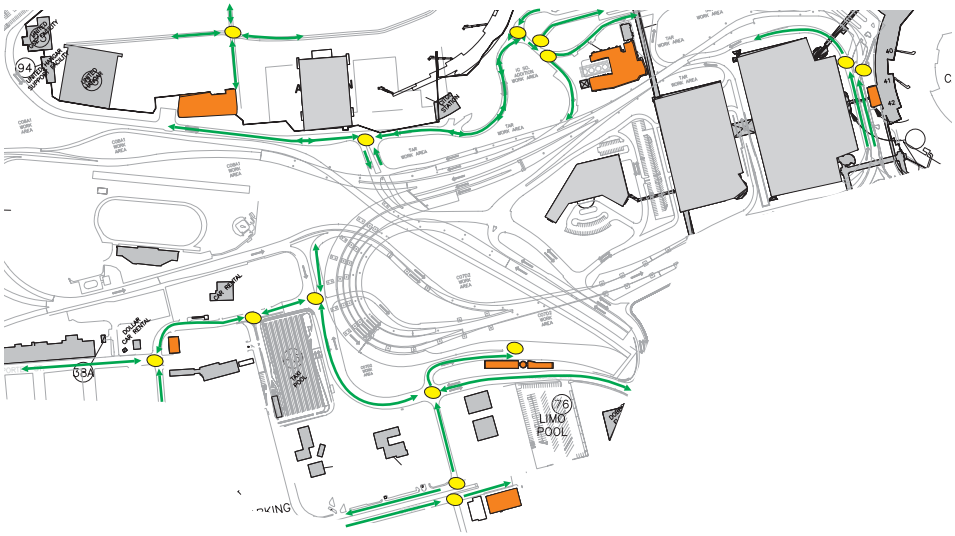
Traffic Flow Key		
Primary Flow	Secondary flow	Decision Point

Circulation Diagram - Example A taken from General Location Plan (Aug. 2002)

Figure A-01

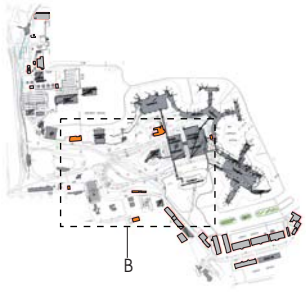
#	Revision	Date

Circulation Diagrams



Airport Services Buildings

Airport Key Plan



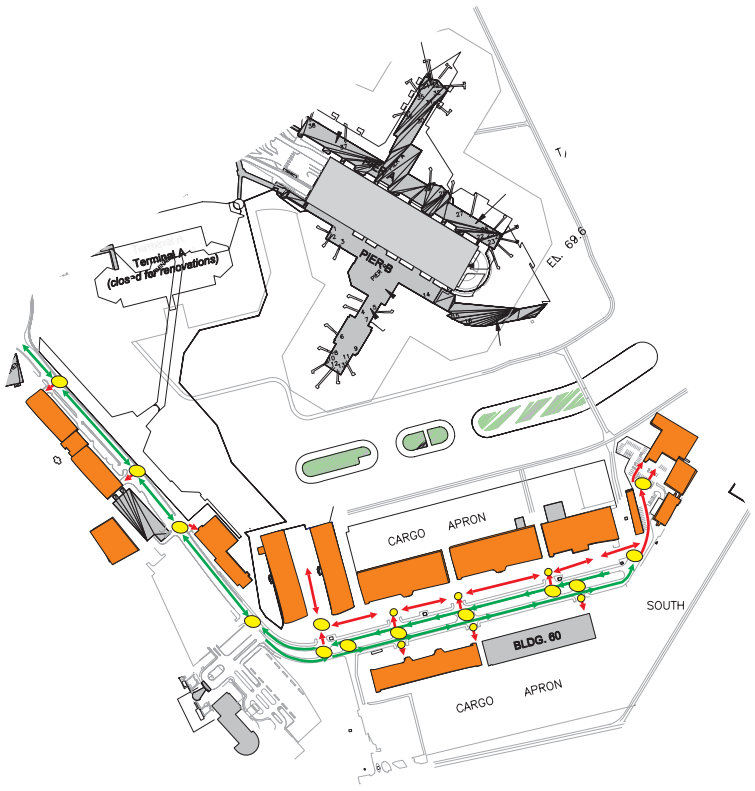
Traffic Flow Key		
Primary Flow	Secondary flow	Decision Point

Circulation Diagram - Example B taken from General Location Plan (Aug. 2002)

Figure A-02

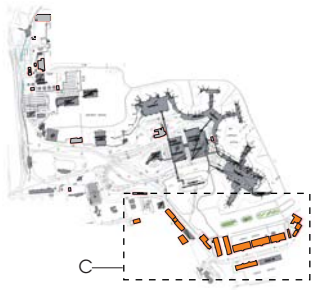
#	Revision	Date

Circulation Diagrams



Airport Services Buildings

Airport Key Plan



Traffic Flow Key		
Primary Flow	Secondary flow	Decision Point

Circulation Diagram - Example C taken from General Location Plan (Aug. 2002)

Figure A-03